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SEEDS

“Nature’s Best”



1929

ABBOTT & COBB

4903 FRANKFORD AVENUE
PHILADELPHIA, PA.

Special Notice. When ordering seed by mail, be careful to give your Name, Post Office, County, State, and Express Office, that your order may go forward without delay. We will pay the postage on seeds forwarded by Parcel Post as quoted by the Ounce, Quarter Pound, or Pound, when cash accompanies the order. This does not include articles as quoted in five- or ten-pound lots. If Peas, Beans, and Corn are to be forwarded by Parcel Post, add postage as per zone rates.

Terms of Guarantee. We give no warranty, express or implied, as to description, purity, productiveness or any other matter of any seeds, bulbs or plants we sell; and we will not be in any way responsible for them. If the purchaser does not accept the goods on these terms they are to be returned at once, and if the money has been paid for them, it will be refunded.

ABBOTT & COBB.

QUANTITY OF SEEDS REQUIRED TO SOW A SINGLE ROW OF 100 YARDS

| | | | | | |
|----------------------|----------|----------------------------|---------|--------------|---------|
| Asparagus..... | .8 oz. | Eggplant..... | .1 oz. | Parsley..... | .2 oz. |
| Beans, Bush..... | .6 lbs. | Endive..... | .2 oz. | Peas..... | .6 lbs. |
| Beans, Pole..... | .3 lbs. | Leek..... | .2 oz. | Pepper..... | .1 oz. |
| Beets..... | .5 oz. | Lettuce..... | .2 oz. | Pumpkin..... | .2 oz. |
| Cabbage..... | .2 oz. | Melon, Water..... | .3 oz. | Radish..... | .6 oz. |
| Carrot..... | .3 oz. | Melon, Citron..... | .2 oz. | Salsify..... | .4 oz. |
| Cauliflower..... | .1/2 oz. | Okra..... | .12 oz. | Spinach..... | .6 oz. |
| Chinese Cabbage..... | .2 oz. | Onion for Sets..... | .8 oz. | Squash..... | .3 oz. |
| Celery..... | .3 oz. | Onion for Large Bulbs..... | .2 oz. | Tomato..... | .1 oz. |
| Corn..... | .1 lb. | Parsnip..... | .3 oz. | Turnip..... | .3 oz. |
| Cucumber..... | .4 oz. | | | | |

GRASS SEEDS TO THE ACRE

| | | | | | |
|---------------------------|---------------|----------------------|-----------------|-----------------------|-----------------|
| Red Clover..... | 10 to 15 lbs. | Crimson Clover..... | 12 to 15 lbs. | Rye Grass..... | 1 1/2 to 2 bus. |
| White Clover (Dutch)..... | 10 lbs. | Timothy..... | 12 lbs. | Orchard Grass..... | 1 1/2 to 2 bus. |
| Alfalfa or Lucerne..... | 20 lbs. | Hungarian Grass..... | 1 bus. | Redtop Grass..... | 1 1/2 to 2 bus. |
| Alike Clover..... | 12 lbs. | Pasture Grass..... | 2 1/2 to 3 bus. | Mixed Lawn Grass..... | 5 bus. |
| Sweet Clover..... | 25 lbs. | Blue Grass..... | 2 to 3 bus. | Millet..... | 1 bus. |

QUANTITY OF SEEDS USUALLY SOWN UPON AN ACRE

| | | | | | |
|---|-----------------|-----------------------------|-----------------|--------------------------------|-----------------|
| Barley Broadcast..... | .2 to 3 bus. | Mustard, broadcast..... | .1/2 bus. | Sage, in drills..... | 8 to 10 lbs. |
| Beans, Dwarf, in drills..... | 1 1/2 bus. | Melon, Musk, in hills..... | .2 to 3 lbs. | Salsify, in drills..... | 8 to 10 lbs. |
| Beans, Pole in hills..... | .10 to 12 qts. | Melon, Water, in hills..... | .4 to 5 lbs. | Spinach, in drills..... | 10 to 12 lbs. |
| Beets, in drills..... | .5 to 6 lbs. | Oats, broadcast..... | .2 to 3 bus. | Squash, Bush, in hills..... | .4 to 6 lbs. |
| Broom Corn, in hills..... | .8 to 10 qts. | Onions, in drills..... | .5 to 6 lbs. | Squash, Running, in hills..... | 3 to 4 lbs. |
| Buckwheat..... | .1 bus. | Onion Sets, in drills..... | .6 to 12 bus. | Sugar-Cane or Sorghum | |
| Cabbage, in beds, to trans- plant..... | .1/2 lb. | Onion Seeds, in drills..... | .6 to 12 lbs. | 10 to 12 lbs. | |
| Carrots, in drills..... | .3 to 4 lbs. | Parsnips, in drills..... | .4 to 6 lbs. | Sudan Grass, broadcast..... | 16 to 24 lbs. |
| Corn, in hills..... | .8 to 10 qts. | Peas, in drills..... | 1 1/2 bus. | Sudan Grass, in rows..... | .2 to 3 lbs. |
| Corn, for fodder..... | .3 bus. | Peas, broadcast..... | .3 bus. | Tomato, to transplant..... | 1/4 lb. |
| Cowpeas..... | 1 1/2 to 2 bus. | Potatoes, cut tubers..... | .10 bus. | Turnip, in drills..... | .5 to 2 lbs. |
| Cucumber, in hills..... | .2 lbs. | Pumpkins, in hills..... | .4 to 6 lbs. | Turnip, broadcast..... | 3 to 4 lbs. |
| Flax, broadcast..... | 1 1/2 bus. | Radish, in drills..... | .8 to 10 lbs. | Vetches, broadcast..... | .30 lbs. |
| Hemp..... | 1 1/2 bus. | Rye, broadcast..... | 1 1/4 to 2 bus. | Wheat, broadcast..... | 1 1/2 to 2 bus. |

PARCEL POST RATES

WEIGHT LIMIT. The weight limit within the first, second and third zones is now 70 pounds, and within all other zones 50 pounds. Shipments of 20 pounds or over are cheaper if sent by express beyond the second zone.

DOMESTIC PARCEL POST RATES

Within the United States and Possessions

| | First pound or fraction | Each additional pound or fraction |
|--|----------------------------|--------------------------------------|
| First zone, within 50 miles of Philadelphia..... | .7 cts. | 1 ct. |
| Second zone, within 50 to 150 miles of Philadelphia..... | .7 cts. | 1 ct. |
| Third zone, within 150 to 300 miles of Philadelphia..... | .8 cts. | 2 cts. |
| Fourth zone, within 300 to 600 miles of Philadelphia..... | .8 cts. | 4 cts. |
| Fifth zone, within 600 to 1,000 miles of Philadelphia..... | .9 cts. | 6 cts. |
| Sixth zone, within 1,000 to 1,400 miles of Philadelphia..... | .10 cts. | 8 cts. |
| Seventh zone, within 1,400 to 1,800 miles of Philadelphia..... | .12 cts. | 10 cts. |
| Eighth zone, all over 1,800 miles of Philadelphia..... | .13 cts. | 12 cts. |



Wonderful Lettuce No. 728. An extra-fine selected strain. See description on page 16

IN presenting this 1929 Catalogue of vegetable and flower seeds to customers and prospective buyers, we desire to emphasize again the importance of planting only properly handled seeds of carefully selected strains and varieties. This careful selection is tedious and expensive but it pays in the long run, serving, as it does, to keep up the standards of quality and yield, and even to improve upon the original.

To give this important work the attention it deserves, it is necessary to confine it to a limited number of varieties. For that reason we offer only those types and strains which are adapted to the localities we serve and over whose selection and grading we have control.

Our list is not as long as some because of this, but the seeds which it contains are there because of decided merit. The same care is extended to our list of flower seeds which includes all popular and profitable varieties for market and home use.

ASPARAGUS

GIANT GREEN. An exceedingly fine strain, the seeds having been selected from the largest stalks in the field. Color is light green. The tops remain solid or closed longer than most varieties of Asparagus. We can highly recommend this seed for commercial purposes. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 10 lbs. \$8.50.

COLUMBIA MAMMOTH WHITE. Shoots of largest size and clear white. Most popular white variety. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 10 lbs. \$8.50.

WASHINGTON. Very productive new rust-resistant strain, selected by the United States Department of Agriculture, of extra-fine quality. Rich dark green stalks tinted darker at the tips. Will grow faster and cut earlier than any other variety. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50, 10 lbs. \$32.50.

ASPARAGUS ROOTS

We can supply strong one and two-year-old roots of the following varieties:

| | 100 | 1,000 |
|-----------------------------|--------|--------|
| Giant Green..... | \$1 25 | \$7 00 |
| Columbia Mammoth White..... | 1 25 | 7 00 |
| Washington..... | 1 75 | 12 00 |



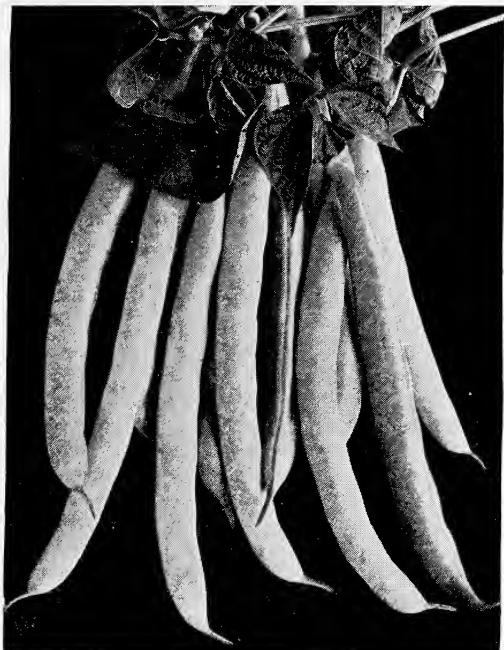
Washington Asparagus



Full-Heart Easy-Blanching Celery
A MARVELOUS NEW VARIETY FOR EVERY PURPOSE. See page 8.

Because of unfavorable growing and ripening conditions the past season, there is an extreme shortage of first-grade seeds of most market-garden crops. The best of such stocks as are available will be rapidly snapped up long before the planting season arrives.

We urge our customers, therefore, to place their orders at once, especially for those varieties which are most important, because of the impending difficulty to obtain good seed when the rush has begun.



Round-Pod Kidney Wax Beans

BEANS (Green-podded)

GIANT STRINGLESS. Very productive, long, round-podded sort, maturing a trifle later than Red Valentine. Absolutely stringless. Pkt. 10 cts., lb. 50 cts., 10 lbs. \$4.50, 100 lbs. \$40.

RED VALENTINE. Earliest Bean of all, maturing in six to seven weeks after planting. Pods are round and of medium length. Pkt. 10 cts., lb. 35 cts., 10 lbs. \$3, 100 lbs. \$27.

BLACK VALENTINE. Hardest and most productive green-podded Bean grown; strong, vigorous vines. Pods are somewhat flat and very long, making a fine appearance. The season is a trifle longer than that of Red Valentine. Pkt. 10 cts., lb. 50 cts., 10 lbs. \$4.50, 100 lbs. \$40.

BOUNTIFUL. A very popular sort with the shipper because it is a prolific producer of flat and absolutely stringless pods of exceedingly fine quality. Pkt. 10 cts., lb. 50 cts., 10 lbs. \$4.50, 100 lbs. \$40.

WAX-PODDED BEANS

ROUND-POD KIDNEY WAX. A very popular Bean because of its unusually good quality; of superior flavor, very brittle, exceedingly tender and absolutely stringless. Its productiveness, early maturing, and rust-resistant qualities have made it a great favorite. Pkt. 10 cts., lb. 50 cts., 10 lbs. \$4.50, 100 lbs. \$40.

CURRIE'S RUSTPROOF. One of the earliest and most popular of the Wax or yellow Beans. Pods flat, sometimes 6 to 7 inches long. Pkt. 10 cts., lb. 50 cts., 10 lbs. \$4.50, 100 lbs. \$40.

WARDWELL'S KIDNEY WAX. An old favorite. Long, straight, broad, brittle, almost stringless, light golden pods, borne in unusually large quantities. Good Bean for market. Pkt. 10 cts., lb. 50 cts., 10 lbs. \$4.50, 100 lbs. \$40.

SOUP BEANS

WHITE MARROWFAT. Heavy producer of large, oval-shaped white Beans. A great favorite for baking or soup. Pkt. 10 cts., lb. 30 cts., 10 lbs. \$2.50, 100 lbs. \$22.

WHITE KIDNEY. Tall, erect plants bearing an abundance of large, showy pods filled with kidney-shaped, white Beans that do not discolor when cooked. A popular dry Shell Bean. We recommend growing these Beans in soil that is not too rich in order that the vines will stand erect, thus eliminating rusted or spotted Beans when they are harvested. Pkt. 10 cts., lb. 30 cts., 10 lbs. \$2.50, 100 lbs. \$22.

LIMA BEANS

FORDHOOK BUSH. The heaviest cropping Bush Lima. It is ready to pick at least two weeks before the Pole Limas, bearing a prolific crop of good-sized pods, each with three to five large, thick, meaty Beans of excellent quality. Pkt. 10 cts., lb. 50 cts., 10 lbs. \$4.50, 100 lbs. \$40.

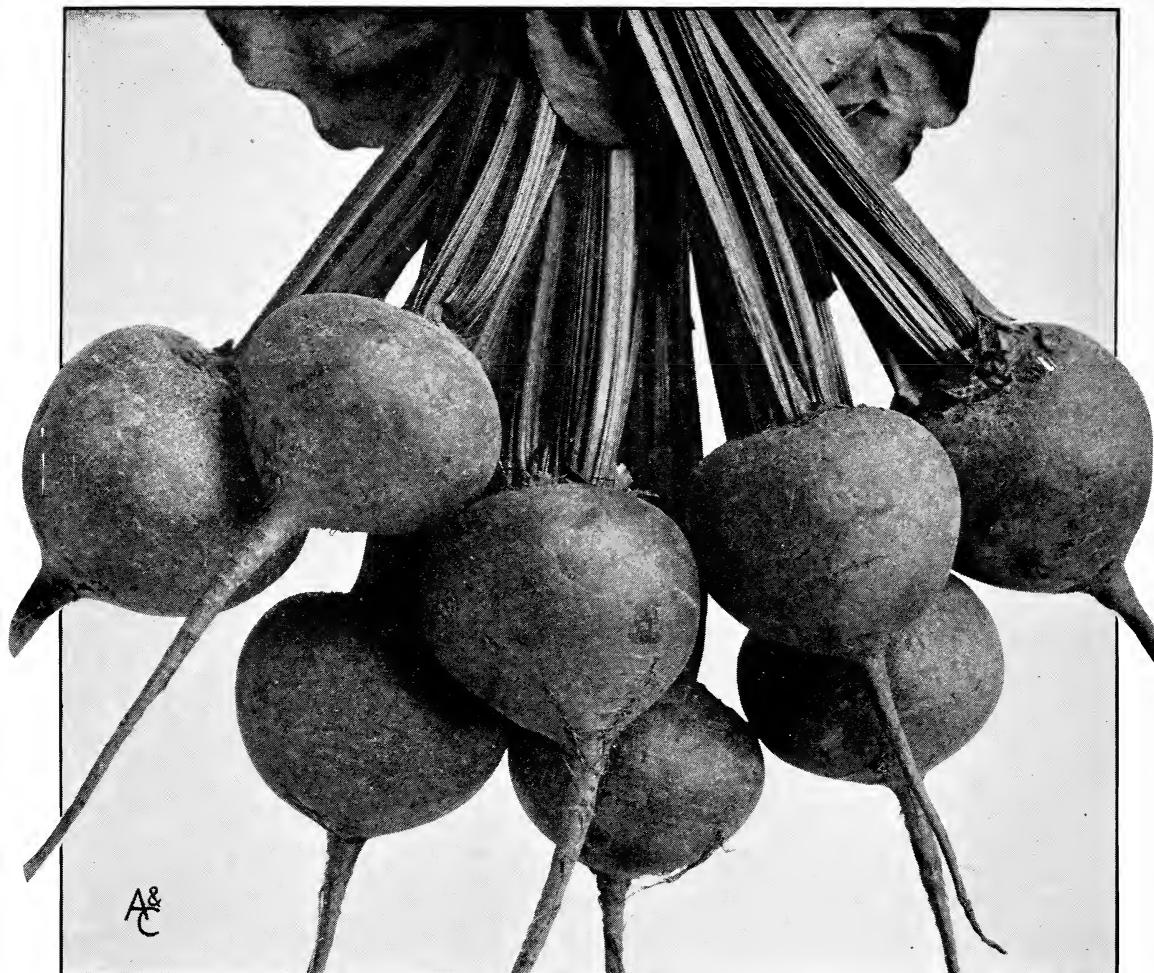
FORD'S MAMMOTH (POLE). Probably the largest-podded Lima Bean. They are very dark green, about 6 inches long, flat, and containing four to five Beans of fine quality in a pod. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$25.

KING OF THE GARDEN (POLE). So attractive that they usually bring better prices than most flat-podded Limas. It is the strongest growing, most productive of the large Limas; pods 5 to 6 inches long, each with four to five large, flat Beans. Two vines to each pole are enough. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$25.

DREER'S IMPROVED (POLE). A vigorous grower, freely producing very thick pods about 4 inches long, containing from three to five large, thick, and fine quality Beans. Later in maturing than most Lima Beans. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$25.



Fordhook Bush Lima Beans



Crosby's Egyptian (Special) Beets

BEETS

CROSBY'S EGYPTIAN (Special)

After four years' work of selecting, we can offer this stock of Beet to the most critical grower. It is extra early, dark red, with a medium-sized top, making it a fine variety for coldframes and outside use. Many growers are now using this for bunching throughout the entire season as it will not crack under the most trying conditions. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.

CROSBY'S EGYPTIAN. An excellent early, rich-colored Beet, with somewhat larger tops than our special Crosby's Egyptian listed above. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 10 lbs. \$7.50.

EARLY WONDER. An early-maturing variety with globe-shaped roots, dark flesh, and tops of medium size. A fine second-early or later variety for bunching. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 10 lbs. \$9.

EARLY ECLIPSE. A favorite second-early Beet, but it is not as early as Crosby's Egyptian. Globe-shaped root, small taproot. Very good variety for storing in trenches. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 10 lbs. \$7.50.

EARLY LENTZ

One of the very best early Beets we know. Grown and selected by a Bucks County market-gardener under our direction. He has gone to much trouble and expense to grow the finest stock for us; it can be relied upon to be absolutely true to type. Color rather light, quality excellent, top rather heavy. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.10, 10 lbs. \$10.

DETROIT DARK RED. (Late.) A turnip-shaped Beet of a very rich red color throughout, largely used by market-gardeners for bunching. We have a very fine strain of this variety. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 10 lbs. \$8.50.

BEETS, continued

MODEL RED GLOBE. Similar to Eclipse, but a trifle later. Perfect globe-shape, of uniform size, rich crimson color, and a fine and sweet flavor. Fine midseason variety. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.10, 10 lbs. \$10.

DETROIT DARK RED. (Late.) An entirely new strain of the Detroit type. Roots uniformly globe-shaped, dark red. We recommend it very highly for canning or bunching purposes, the tops being rather small, which seems to be essential for either purpose. We have gone to the trouble to have a small quantity put through the canning process and have seen and heard excellent reports of our experiment. In fact, we have gone the limit in producing this special strain of Detroit Beet and do not know anything else to do to make the type better. To those who have not already had a sample, we will gladly furnish a liberal trial pkt. upon request. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.

BASTIAN'S HALF-LONG. We have been working for some time to get a first-class stock of this variety. The roots are dark red, very smooth and uniform in shape, running a trifle longer than most stocks of this variety. The quality of this Beet is also very fine, retaining its tenderness longer than most varieties. Tops are rather heavy, making a fine, robust appearance while growing. This Beet is grown principally in and around Philadelphia County for winter or storage purposes. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40, 10 lbs. \$13.

MANGEL BEET FOR STOCK-FEEDING

Bastian's
Half-long
Beet

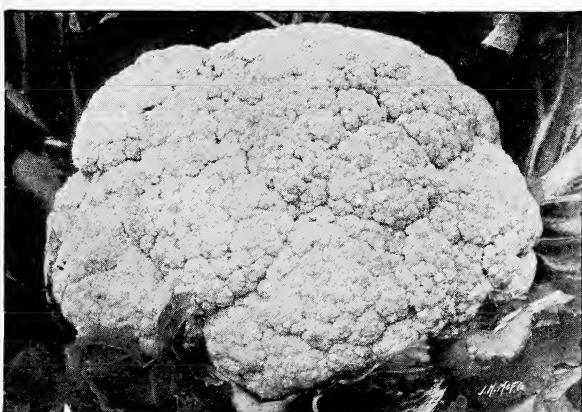
LONG RED. A mammoth-yielding variety, producing roots largely above ground, making them easy to harvest. A desirable cow-feed to increase milk-flow. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 50 cts., 10 lbs. \$4.

GOLDEN TANKARD. Roots are very large; flesh yellow, zoned with white. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 50 cts., 10 lbs. \$4.

CHIRK CASTLE. Very large, long, red variety, somewhat sweeter than Mammoth Long Red. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 50 cts., 10 lbs. \$4.

SWISS CHARD

GIANT LUCULLUS. This is a variety of Beet grown exclusively for its large, tender leaves which are cooked the same as spinach; the midribs are sometimes served like asparagus making delicious "greens." Cut 4 inches above the ground, the plants will produce another large crop of leaves; can be cut repeatedly. Valuable crop for poultry feed. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 10 lbs. \$9.



Early Snowball Cauliflower

Long Red
Mangel
Beet

LARGE GREEN WHITE-RIBBED. The best selling sort on the market. It is a big improvement over the Lucullus varieties; the leaf is green but not as curly. It also has a much better flavor than the Lucullus varieties. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 10 lbs. \$9.

CAULIFLOWER

EARLY SNOWBALL. Deep, solid heads of medium size, pure white, and of excellent quality. An ideal all-season variety for the home-garden and the best early for the market grower. Forces easily. Pkt. 25 cts., oz. \$3, $\frac{1}{4}$ lb. \$8.50, lb. \$30.

AUTUMN GIANT. An enormous late sort; leaves very large and hardy. Pkt. 25 cts., oz. \$1, $\frac{1}{4}$ lb. \$3, lb. \$10.

CABBAGE

EXTRA-EARLY JERSEY WAKEFIELD. The most popular early Cabbage. The pointed heads are of medium size, solid, and of excellent quality. They are hardy, resist frosts, and mature in 100 days. Pkt. 10c., oz. 40c., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50, 10 lbs. \$35.

CHARLESTON or LARGE WAKEFIELD. A week later than Extra-Early Jersey Wakefield. Heads are larger, just as solid, but not quite as pointed. Good variety to follow the Early Jersey Wakefield. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50, 10 lbs. \$30.

GOLDEN ACRE. A very valuable, first-early, round-head sort. This variety is known throughout the country as the best for early spring use. The heads are very solid, leaves very similar to Copenhagen but not as large a head. Our trials show it to mature 10 days earlier than the Copenhagen Market. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6, 10 lbs. \$5.50.

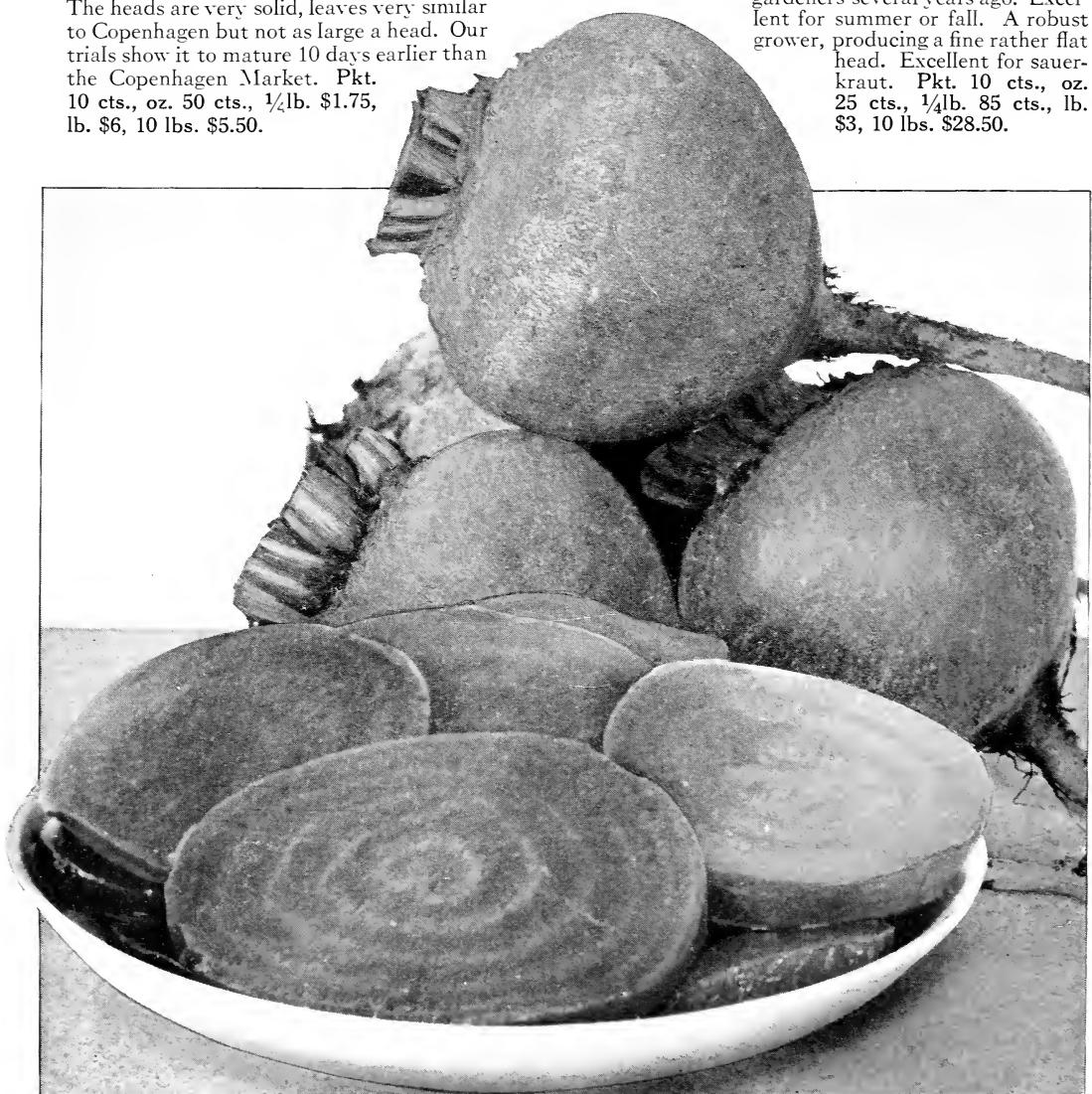
COPENHAGEN MARKET. An early round-headed variety which is in a class by itself. Heads very solid, often weighing 10 pounds. About as early as Charleston Wakefield. Sow the seed in February for early use, as the fall-sown plants are apt to run to seed in the spring. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$4, 10 lbs. \$38.50.

EARLY SUMMER VARIETIES

SUCCESSION. Large, solid, flat heads, which will stand a long time before marketing. A fine second-early variety. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3, 10 lbs. \$28.50.

ALL-SEASONS. Good variety to use any time throughout the season. Heads are large, a trifle flat, and mature early. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3, 10 lbs. \$28.50.

LAUDERBACK'S ALL-YEAR-ROUND. An old standard variety, originated by one of our market-gardeners several years ago. Excellent for summer or fall. A robust grower, producing a fine rather flat head. Excellent for sauerkraut. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3, 10 lbs. \$28.50.



Our new strain Detroit Beet. See description, page 5

FALL or WINTER CABBAGE

LATE FLAT DUTCH. One of the best late winter Cabbages. Very large, oval-shaped heads of good quality that keep well. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3, 10 lbs. \$28.50.

DANISH BALLHEAD. A medium-sized, very solid-heading, popular variety for winter use. Grown principally by our New York growers for shipping. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$4, 10 lbs. \$38.50.

HARD-HEADING SAVOY (Special). An unusually good variety for early or late planting. The heads are large, solid, almost round, and very crisp. A fine sort to store for winter use as it will keep longer than any other. Used particularly for boiling because of its fine flavor. Pkt. 10 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2, lb. \$7, 10 lbs. \$60.



Hard-heading Savoy Cabbage

cessful as the heads run to seed in hot weather. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4, 10 lbs. \$38.50.



Charleston or Large Wakefield Cabbage

MAMMOTH RED ROCK. Very large, round, solid head. This variety is fine for cole slaw, as the color gives it a fine appearance. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3, 10 lbs. \$28.50.

CHINESE CABBAGE (Wong-Bok). Makes a salad with a delightful peppery zest; should be in every garden. Large, tender heads can be eaten like lettuce or boiled as cabbage. In the latitude of Philadelphia or New York sow the seed August 1. Seed sown in spring is rarely suc-



Chantenay Carrots

CARROT

Rich in the important vitamins, Carrots should be eaten frequently. When pulled fresh and young, the roots are tender and delicious.

CHANTENAY

An excellent stump-rooted sort of fine orange color, with medium-sized tops and a small neck. The roots are uniform, averaging from 2 to 4 inches thick at the shoulder and 5 to 6 inches in length. The flesh is fine-grained, crisp, tender, and free from core. A productive ideal bunching Carrot. Pkt. 10c., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25, 10 lbs. \$11.50.

RUBICON HALF-LONG. A stump-rooted variety somewhat longer than the Chantenay, with deep orange color. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25, 10 lbs. \$11.50.

DANVERS HALF-LONG. An extremely popular main-crop Carrot. A trifle longer than Chantenay, with pointed root and pleasing orange color. Grown principally for winter use. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.50.

ST. VALERY. The most desirable Carrot for home and fancy markets. It has 10-inch, smooth, pointed, dark orange-colored roots. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 10 lbs. \$9.

CELERY

GOLDEN SELF-BLANCHING (Special)

Grown in all of the leading Celery sections of the United States because the growers claim there is nothing better. It has fine golden appearance, producing a rib more round than most stocks of Golden Self-blanching. Our stock is tested one year before selling, to safeguard the grower against any poor stock. This particular sort is a vigorous grower and is therefore more free from blight. We have carefully selected and rogued it to eliminate the hollow stem or softness while growing or after blanching. The germinating qualities are also better in this robust stock, which makes it a big factor in producing large, strong stalks. Pkt. 10 cts., oz. \$1, $\frac{1}{4}$ lb. \$3.50, lb. \$12, 10 lbs. \$110.

EARLY FORTUNE (Improved Golden)

We are offering in this variety one that has been on the market for three or four years and has proved itself to be a valuable early sort. It is a cross between Golden Self-blanching and Easy-blanching, retaining the quick, robust-growing habits of Easy-blanching. It is far more resistant to blight than Golden Self-blanching and matures two weeks earlier. It has the largest heart of any known variety; very valuable for either close or wide culture. This seed is grown on our own farms and is absolutely true to type. Do not fail to try

even a small quantity of this if you are not familiar with it. Pkt. 25 cts., oz. \$2, $\frac{1}{4}$ lb. \$7, lb. \$25, 10 lbs. \$225.

FULL HEART EASY-BLANCHING

In this stock we are offering something new—a combination that should suit every grower of Celery, as it can be used for both early and late. The ribs are more round than the general run of Easy-blanching stocks, producing as much heart as is possible to grow. The height is about 20 inches, very easily blanched to a light golden color. The roundness of the ribs will eliminate the softness that is always noticeable in Easy-blanching types. Extra good for cold storage or trenching. See illustration on page 2. Pkt. 25 cts., oz. \$2, $\frac{1}{4}$ lb. \$7, lb. \$25.

EASY-BLANCHING (Special)

One of the very best for early or late use. Very stout and handsome stalks that are more free from blight than any other Celery on the market. It will bleach to a light golden color almost as quickly with boards or paper as Golden Self-blanching. We have used a great deal of care in producing this stock and it is giving perfect satisfaction to all who are using it. This is a full-hearted variety, having been known to produce 450 crates on an acre of muck-land soil. The seed is grown on our own farms. Pkt. 10 cts., oz. \$1.50, $\frac{1}{4}$ lb. \$5.50, lb. \$20.

GOLDEN PLUME CELERY DEMONSTRATION

AT H. N. DUDLEY'S FARM, BUSTLETON, PA.

Seed sown April 13, 1926. Transplanted July 16, 1926

| SOURCE | GRADED FOR MARKET | | | | | | Total stalks | Wt. lbs. | Aver. wt. per stalk lbs. |
|---------------------------------|-------------------|------------------|------------------|------------------|-------|---------------|--------------|-------------------|--------------------------|
| | Single stalks | Wt. lbs. | Bunches | Wt. lbs. | Culls | Wt. lbs. | | | |
| Woodruff (1924 crop seed)..... | 34 | 46 | 13 | 29 | 11 | 2 | 84 | 77 | 0.91 |
| Woodruff (1925 crop seed)..... | 31 | 52 | 12 $\frac{1}{3}$ | 32 | 7 | 2 | 75 | 86 | 1.15 |
| Meisch's Special..... | 31 | 51 | 15 $\frac{1}{3}$ | 44 | 9 | 3 | 86 | 98 | 1.14 |
| Stumpp & Walter's Golden Plume | 42 | 67 | 11 $\frac{2}{3}$ | 34 | 1 | $\frac{1}{4}$ | 78 | 111 $\frac{1}{4}$ | 1.42 |
| Eberle's Wonderful..... | 30 | 45 | 13 $\frac{2}{3}$ | 34 | 1 | $\frac{1}{4}$ | 73 | 79 $\frac{3}{4}$ | 1.10 |
| Stokes' Golden Plume..... | 39 | 67 | 13 $\frac{1}{3}$ | 38 | 2 | $\frac{1}{4}$ | 81 | 105 $\frac{1}{2}$ | 1.30 |
| Garrahan's Golden Plume..... | 31 | 63 | 13 | 38 $\frac{1}{2}$ | 4 | 2 | 82 | 103 $\frac{1}{2}$ | 1.26 |
| Abbott & Cobb's Early Fortune.. | 36 | 75 | 12 | 36 $\frac{1}{2}$ | 1 | $\frac{1}{4}$ | 74 | 112 $\frac{1}{2}$ | 1.52 |
| Buist's Golden Plume..... | 39 | 72 $\frac{1}{2}$ | 12 | 38 | 8 | $\frac{1}{4}$ | 86 | 114 $\frac{1}{2}$ | 1.33 |
| Forbes' Golden Plume..... | 27 | 46 | 14 | 41 | 1 | $\frac{1}{2}$ | 71 | 87 $\frac{1}{2}$ | 1.23 |

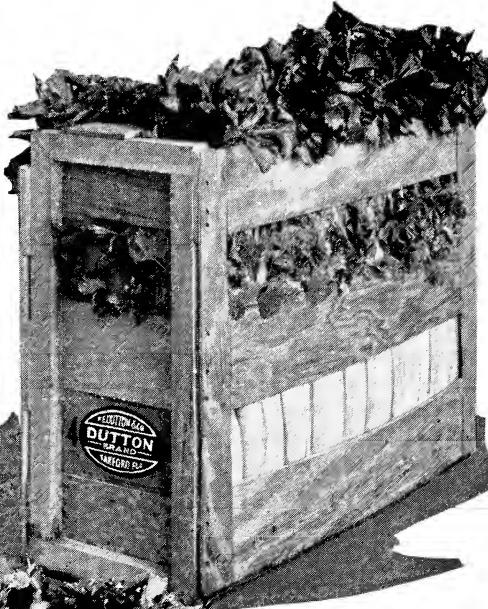
NOTE.—Due to extreme heat July 9 and 10, many plants died. Entire demonstration replanted on July 16.



Golden No. 14

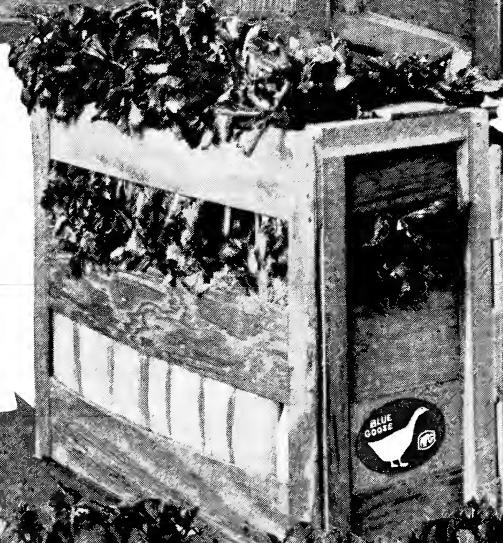
FIVE LEADING BRANDS

When Celery is packed under these labels it means that the quality is of the finest.



Golden No. 14

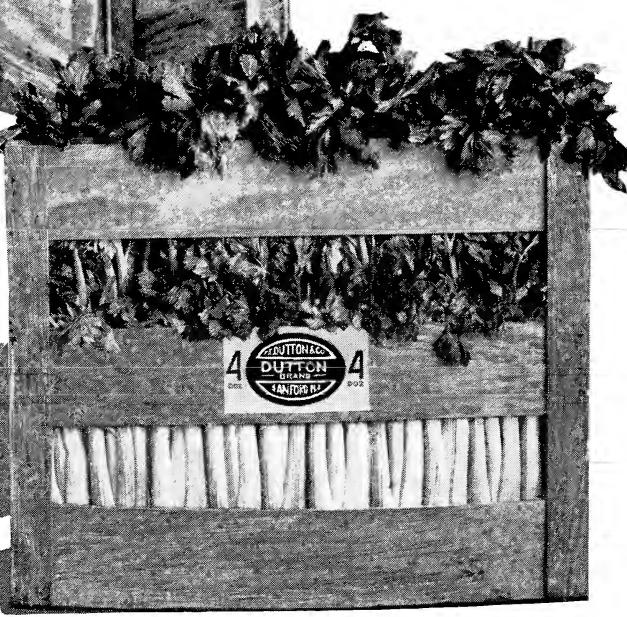
These varieties are grown in Florida from our fancy strains. Golden No. 14 brought, in every case the past season, a premium over other varieties.



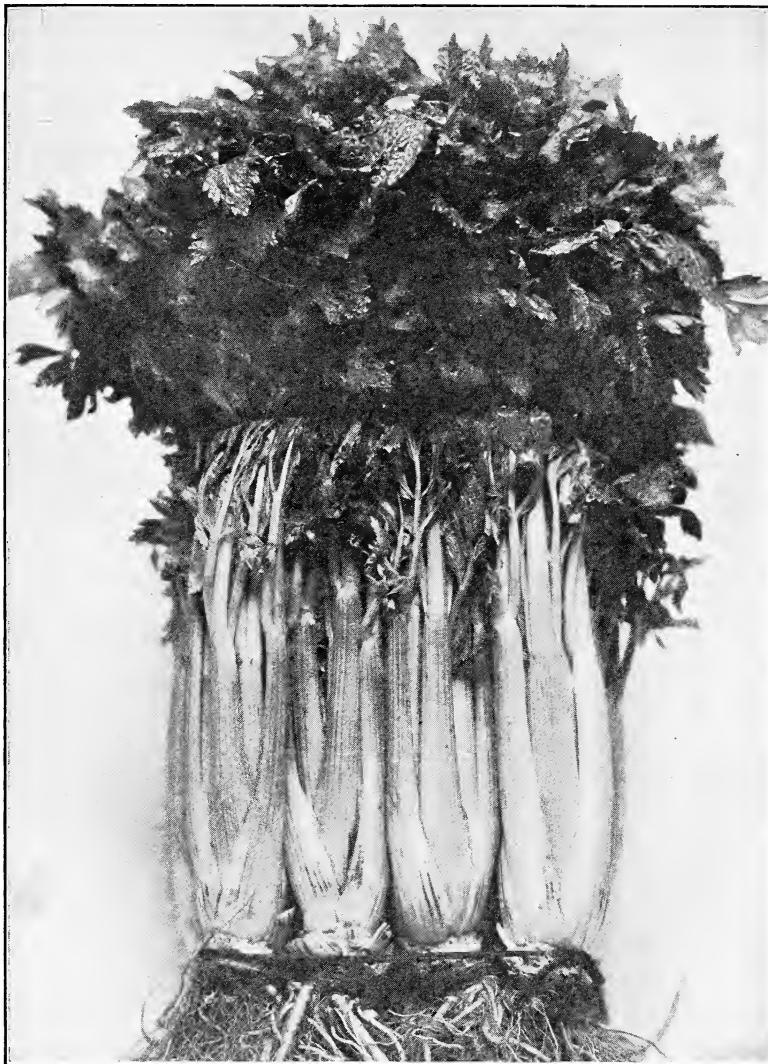
Early
Fortune



Golden Self-blanching



Early Fortune



Abbott & Cobb's Special Golden Self-blanching Celery, grown by Starkey Farms, Morrisville, Pa.

CELERY, continued

MEISCH'S GREEN. Another easy-blanching variety, growing full-hearted stalks a trifle shorter than Easy-blanching, and of a beautiful light golden color when bleached. This seed was grown by us from the original stock and is absolutely true to type. The ribs of this variety are more round than those of the Easy-blanching. It can be bleached with paper, boards, or dirt for early use and is a good variety to store for winter use. Pkt. 10 cts., oz. \$2, $\frac{1}{4}$ lb. \$7, lb. \$25.

MEYERS' WHITE PLUME. Very early Celery. Ribs and leaves when bleached are white and it requires only a short time before it is ready for market. This is the first early Celery that was originated and still holds a high place among the early varieties. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

GOLDEN NO. 14. We have had a great demand for a fancy stock of the old Golden Self-blanching Celery, and have produced this with the idea in mind that it would fill crates quicker and make larger bunches than any stock of this variety. We have selected it for a long, round rib. This seems to be essential. The heart is a light golden color with not even a green tint in a single stalk. It will mature a little earlier than the old stock of Golden Self-blanching and will blanch a trifle quicker, which is due to the extra-fancy selection. This is now known to be the leader in this variety. Pkt. 10 cts., oz. \$2, $\frac{1}{4}$ lb. \$7, lb. \$25.

CELERY, continued

COLUMBIA. Finest eating Celery to be had. The ribs are round and very solid and it grows a very stout, light green stalk. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

NO-FAULT GIANT. Resembles Meyers' White Plume in many respects. It is, without doubt, the stronger grower and the stalks are much heavier. It is noted for standing dry weather better than any other early Celery. Ribs resemble Giant Pascal. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.15, lb. \$4.

WINTER KING (Special)

The best winter variety to store in trenches. Should be ready to market just after Christmas. It will produce exceedingly full-hearted, very green, stout stalks of unusually good keeping qualities. For those who figure on growing late Celery, we recommend this particular stock. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

WINTER QUEEN. An old standard, late-keeping sort. Has very stout stalks of medium height which when blanched are very attractive creamy white in color, crisp and of fine flavor. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

CELERIAC**GIANT PRAGUE (Special)**

For some time we have been working to produce a stock of large-bulbed Celeriac and now we have improved the strain sufficiently to offer something excellent in this line. Most other stocks grow very large tops and very small bulbs or roots. We have bred this to produce a medium-sized top with a large apple-shaped root. It has excellent keeping qualities. Pkt. 10 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.50, lb. \$8.



Giant Prague Celeriac

CORN SALAD

Used both as a salad and pot herb. A cool-season crop, maturing in six to eight weeks. Plant in early spring; also in late summer for fall crop.

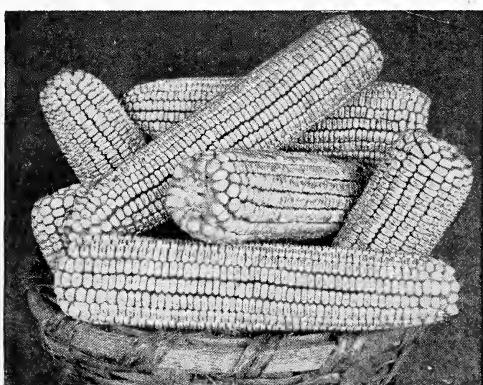
LARGE-SEEDED BROAD-LEAF. Leaves large and broad. Best variety to grow under glass. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.

FIELD CORN

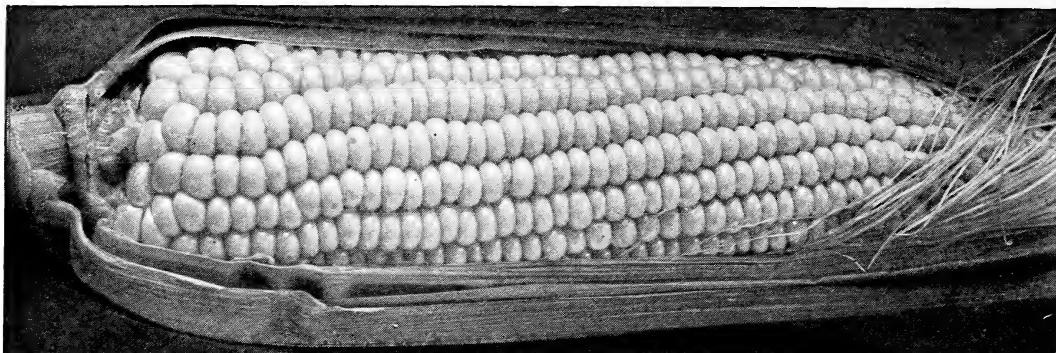
IMPROVED LEAMING. A high-yielding Corn, maturing in 90 to 100 days. One of the best varieties for silage as well as for husking. Pkt. 10 cts., lb. 25 cts., pk. (14 lbs.) \$1, bus. (56 lbs.) \$3.

100-DAY BRISTOL. Grown under immediate direction, this 100-day Corn will grow large crops with 16 rows of large, broad, deep kernels on a small cob. Pkt. 10 cts., lb. 25 cts., pk. (14 lbs.) \$1, bus. (56 lbs.) \$3.

EUREKA ENSILAGE. For tonnage, Eureka is the best ensilage Corn. A very vigorous grower, having unusually heavy foliage, with large, tender stalks that the cattle will relish. Pkt. 10 cts., lb. 15 cts., pk. (14 lbs.) 75 cts., bus. (56 lbs.) \$2.50.



Improved Leaming Corn



Abbott & Cobb's Early Sweet Corn

SWEET CORN

ABBOTT & COBB'S EARLY

As this sort was originated by us and grown in Bucks County, Pennsylvania, it is acclimated. Large, 14-rowed ears, with medium-sized grains. Two fine ears are borne by about 60 per cent of the stalks. The quality is excellent and the stalks are of medium size. An exceptionally fine Sweet Corn that quickly became a favorite with all of the early Corn-growers. A special drying process insures the best of germinating power to each seed. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 50 lbs. \$12.

HOWLING MOB. Undoubtedly the finest medium-early Corn. Ears are larger and a trifle later than the Abbott & Cobb's Early. The seed we offer has been grown by a farmer in Bucks County and is absolutely true to type. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.75, 50 lbs. \$11.

KENDEL'S EARLY GIANT. A very popular, large, second-early variety, about a week later than Howling Mob. The ears are very thick and about 8 inches long, with real sweet flavor. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.75, 50 lbs. \$11.

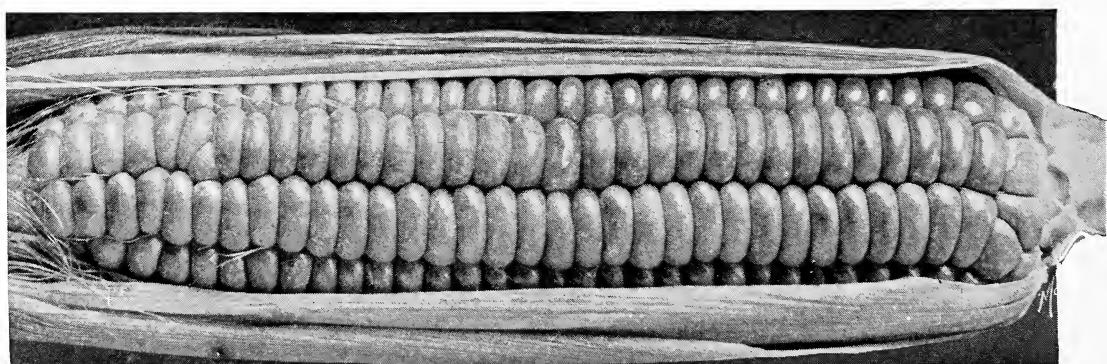
GOLDEN BANTAM. The favorite Corn in the small garden because of its deliciously sweet kernels. The stalks grow from 4 to 5 feet high, producing a good-sized golden ear. The color is very often misleading to those who do not know this variety, but a trial will convince anyone that the quality is excellent. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.75, 50 lbs. \$11.

STOWELL'S EVERGREEN. The leading main-crop Corn for home use, market, and canning. Our stock has been grown and selected on a Bucks County farm under our direct supervision and thoroughly dried by a natural process. It will produce large, uniform-sized ears of fine quality. The grains are of medium size and slender. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.50, 50 lbs. \$10.

EARLY METROPOLITAN. Combines the essential features of earliness, productiveness, and good flavor. Ears 8 to 9 inches long. A very desirable variety. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.75, 50 lbs. \$11.

COUNTRY GENTLEMAN. A favorite main-crop variety requiring rich ground. Has a small cob with tender, medium-sized, deep kernels of an unusual high quality. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.50, 50 lbs. \$10.

Abbott & Cobb's Celery Seed is famous for its purity, uniformity, and special strains of the most profitable varieties. This superior quality is maintained by rigid selection of improved types in the field and a most careful supervision of its planting and cultivation down to its harvesting and preparation for our use. There is none better.



Golden Bantam Sweet Corn



Early Fortune Cucumber

CUCUMBER

WHITE SPINE. An extra dark green, White-Spine variety of fine shape and appearance. Season is about the same as Arlington. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

LONG GREEN. Fine, long, dark green sort for pickling or shipping purposes. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

EARLY GREEN HILL

We are offering an entirely new strain of Cucumber this year. It is earlier than any of the White Spine strains, and will out-yield them. Beautiful, glossy, dark green fruits of very uniform shape and an average length of 8 to 10 inches. They will hold their color and brittleness a long time, so are excellent shippers to distant markets. The vines are more robust growers than most varieties, and they will stand up better under adverse conditions. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50, 10 lbs. \$14.

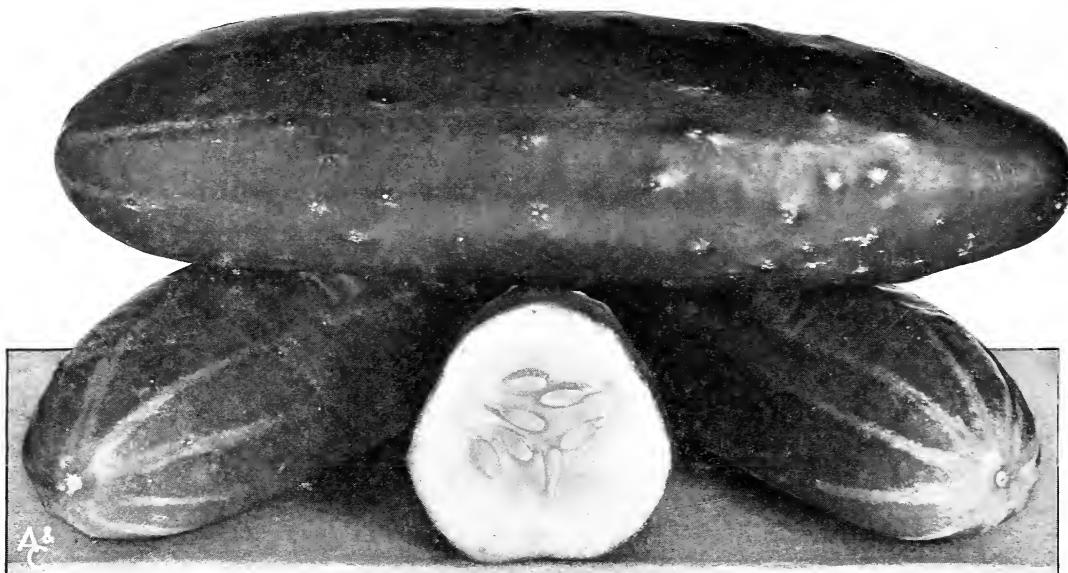
EARLY FORTUNE. A very early, dark green, prolific variety with fruit averaging about 8 inches long. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

A & C. This is positively a new stock of Cucumber which we are offering. We have developed it on our own farms and figure we now have something that will be in great demand on the market. The vines are robust in habit and will produce an abundance of Cucumbers about 10 inches long but not as thick as most varieties and not showing the spine much. Their beautiful dark green color is retained longer than that of any stock which we have ever tested. The time of maturity is sixty days. We recommend this highly for shipping purposes. Our supply of seed on this variety is limited this year and would suggest ordering early. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50, 10 lbs. \$22.50. See illustration on page 14. (Crop failed).

ENDIVE

MAMMOTH GREEN CURLED or OYSTER. Very large, curly plants, which, when bleached, are light yellow with a meaty flavor. It is the variety most commonly grown by market-gardeners. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25, 10 lbs. \$11.50.

BROAD-LEAF (Escarolle). Leaves are broad, thick, slightly wrinkled, and easily blanched. The best of the broad-leaf type. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$14.



A. and C. Cucumber. See page 13

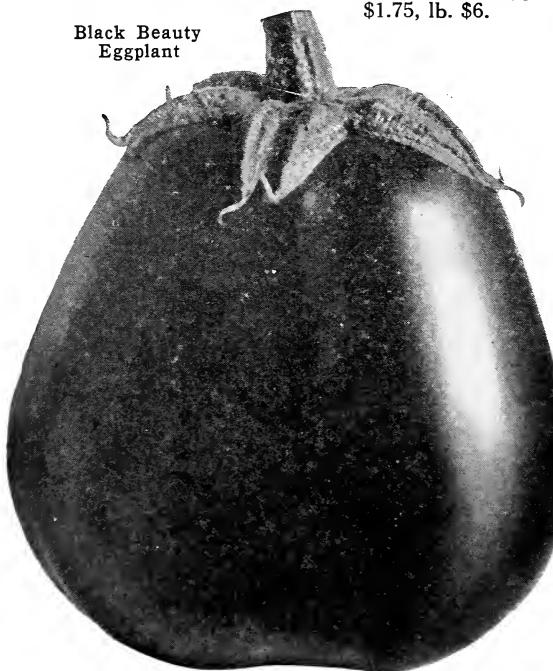
DANDELION

IMPROVED BROAD-LEAF. This variety is considered the best by many growers. It is very early, producing a bigger crop of large, broad, thick leaves than most varieties, and is especially good for under glass. Pkt. 10 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.75, lb. \$10.

EGGPLANT

BLACK BEAUTY. Finest of all. Fruit is large, handsome, and of glossy black color; very early and productive. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

Black Beauty
Eggplant



HORSE-RADISH ROOTS

The old standard variety; Philadelphia grown. Fine, strong sets. \$1 per 100, \$7 per 1,000. If wanted by mail, add 10 cts. per 100 for postage.

KALE

IMPERIAL LONG-STANDING. Fast grower and yet stands much longer than most varieties without going to seed. The leaves are dark green and very curly. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 30 cts., lb. 80 cts., 10 lbs. \$7.50.

KOHLRABI

A quick-growing, "turnip-rooted" cabbage. Use when half grown (the bulbs 2 to $2\frac{1}{2}$ inches in diameter). Make sowings every ten days to insure succession.

EARLY SHORT-LEAF WHITE

An extremely early variety with very small tops, which permits planting very closely. It is the best for forcing or outdoor use. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

WHITE VIENNA. A very popular white variety with few small leaves, white skin, and tender, delicate flesh. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

LEEK

The most delightfully flavored member of the onion family. The thick, tender stalks, when cooked, are relished by those who never eat onions. Used in stews and soups they impart a very delicate flavor.

GIANT ITALIAN. Very large, short, thick stems with broad, dark green leaves; very hardy. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50, 5 lbs. \$12.

LARGE MUSSELBURGH. Stems short, very thick; broad, dark leaves; very mild flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2, 5 lbs. \$9.50.



White Big Boston Lettuce

LETTUCE

WHITE BIG BOSTON (Special)

For the last five years we have been producing and selling an unusually good type of White Big Boston that is absolutely true to type. It resembles the Big Boston in appearance, with leaves a trifle smoother than most varieties of White Boston and which do not turn red in cool or cold weather. The head and frame is just as large as is possible to produce; it will cut as many crates per acre as the regular Big Boston. The fact that it does not turn red in cool weather makes it a most valuable shipper for it often brings 50 cents per crate more than the Big Boston. The commission men are always anxious to get hold of a good stock of well grown White Boston. This is the type to grow to please them. It is an exceptionally fine variety for growing under cold-frames or for the first planting outside in the spring. Pkt. 10 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$4, 10 lbs. \$40.

ABBOTT & COBB'S SPECIAL BIG BOSTON

Our stock of Big Boston is, without doubt, the finest to be had anywhere. We have gone to great trouble and expense to produce the very best strain of this desirable variety. By careful test it has proved the best out of thirty different strains. The leaves are thick and dark green, producing very solid white heads. We recommend this variety to particular growers. Pkt. 10c., oz. 20c., 1/4lb. 50c., lb. \$1.50, 10 lbs. \$12.50. See cut, page 17.

IDEAL. This is the earliest variety we know, producing a leaf similar to the old type Salamander or May King. The frame is exceptionally large. While the head is not quite as hard as some varieties, its earliness really makes it valuable. It is often put on the market ten days ahead of Big Boston or White Big Boston. Pkt. 10 cts., oz. 40 cts., lb. \$4, 10 lbs. \$40.

ALL-SEASONS. Very dark green leaves, forming a very large, compact head, but does not head well during July and August. A fine strain for spring and fall use. Pkt. 10 cts., oz. 20 cts., 1/4lb. 65 cts., lb. \$2, 10 lbs. \$17.50.

LETTUCE, continued

SALAMANDER. One of the most desirable for all-season growing, producing very solid and tender heads of excellent quality at all seasons. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$12.50.

ALLHEART. Resembles Salamander in appearance but the heads are not quite as large. It is the best hot-weather Lettuce that we know, having withstood repeated tests on hot, hard soil. This is one of our specials. It is the strain unsurpassed. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.25, 10 lbs. \$20.

NEW YORK or WONDERFUL NO. 728. The most popular Lettuce grown for market, where it is known as "California Ice Lettuce." A slow grower making a heavy, firm head that remains in good condition several weeks. Outer leaves dark green, inner blanch pure white. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.75, 10 lbs. \$35.

BLACK-SEEDED SIMPSON. One of the old, most reliable and productive loose-leaf varieties. The nearly white, very large, thin, curly, very tender leaves are of very good quality, remaining in fine condition for some time. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75, 10 lbs. \$15.

EARLY SPRING. Here is a type of Lettuce that we have selected out of our special stock of White Big Boston. What we have done is select the smaller ones with a smooth, thick leaf. These we have noted are rather rugged and will stand more sun

EARLY SPRING, continued

and mature about five days earlier, making one of the hardest heads we have ever seen in Lettuce. Coming out of the White Boston type, they do not show any redness in cool or even frosty weather. It is plenty large enough to pack two dozen in a standard Lettuce crate. We recommend this for early spring use, under glass or outside, but not late fall sowing, as it is apt to run a trifle small if sown too late in the season. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4, 10 lbs. \$40.

DARK COS. In this Cos we are offering something new. We have developed it with the idea in mind that it would withstand heat and bad weather conditions. Our experiments this past season have proven it to be far superior in this respect. The leaves are dark green with a self-folding head. Height is about 15 inches. We believe this to be a very valuable commercial type, and will gladly furnish a liberal sample of seed to those who have not already tried it. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.75, 10 lbs. \$35.

ROMAINE or COS. This is the largest variety of green Cos Lettuce that grows. It has an upright, quick-growing habit, and a solid, very crisp head of fine flavor that bleaches as it grows. It is not so apt to blast as some of the light-colored strains, therefore more sure to make a crop. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$12.50.



Romaine or Cos Lettuce



Abbott & Cobb Special Big Boston Lettuce. See page 15

MUSKMELON

SALMON-FLESHED. Firm, oval-shaped, close-netted melon, very desirable for shipping. Rich salmon-colored flesh—a new color for melons and one that has proved very attractive to the consumers because of its high flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50, 10 lbs. \$14.

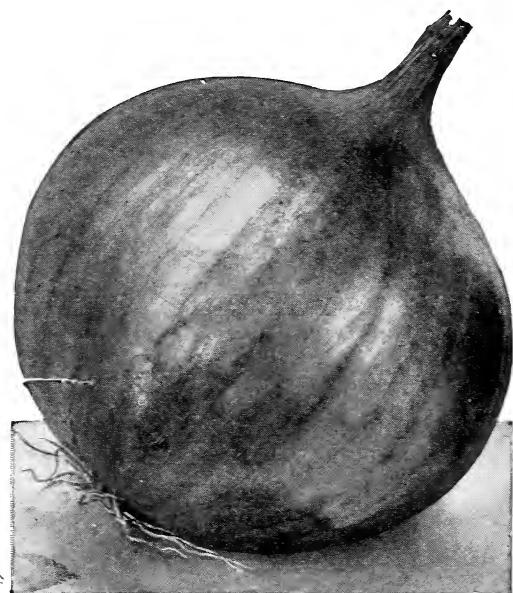
ROCKY FORD. The most desirable green-fleshed melon; it is unexcelled for spiciness and sweetness. Our stock is the improved blight-resistant type of Rocky Ford. Its shipping qualities are fine. Light green flesh with small seed cavity and extra-fine flavor. A very popular variety and always scarce and in heavy demand. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

FORDHOOK. One of the very best early, deep-fleshed, pink melons, with a most delicious flavor. Somewhat flat in shape, well netted, the sectors showing plainly. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

HONEY DEW. This new and deliciously flavored melon has met with instant public favor. It is the very finest melon grown today because of its extraordinary sweetness. Fruit very large; rind smooth and cream colored. The light green flesh is very thick, and unsurpassed in quality and richness of flavor, crisp texture and unrivaled sweetness. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.50, 10 lbs. \$14.



F. J. Ritz & Sons, Elba, N. Y., White Big Boston Crop, 1928.
Note the percentage of crop cut and marketed



Southport Yellow Globe Onion

WATERMELON

TOM WATSON. Most largely grown commercial Watermelon. Similar in size and shape to Kleckley Sweets, but much larger, often weighing 25 to 30 pounds and often 24 inches long. Very prolific, producing its large delicious fruits in great abundance; of uniform size. Very solid rind; flesh heavy and sweet. Pkt. 10 cts., oz. 15 cts., 1/4lb. 30 cts., lb. 75 cts., 10 lbs. \$7.

KLECKLEY SWEETS. The sweetest Watermelon and one of the easiest to grow. About 18 to 20 inches long, 12 inches in diameter, and filled with the juiciest, sweetest flesh imaginable. The dark green rind is thin, breaking easily in shipping. The most widely grown for home and local markets. Pkt. 10 cts., oz. 15 cts., 1/4lb. 30 cts., lb. 75 cts., 10 lbs. \$7.



Southport White Globe Onions. See page 19

ONIONS

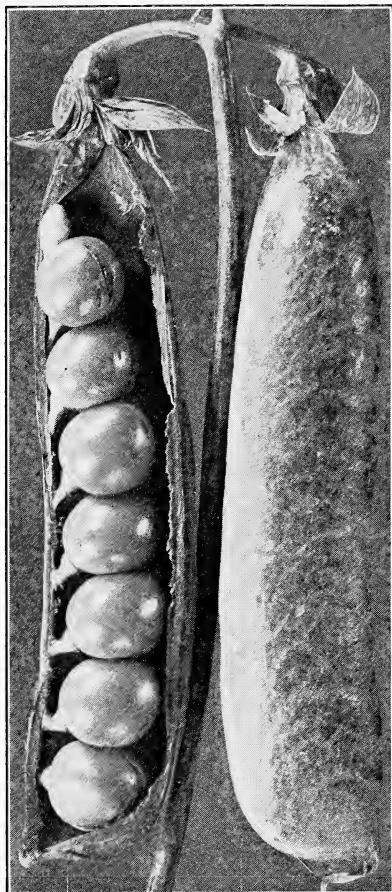
YELLOW DUTCH. Early, medium-sized, flat-shaped Onions of good quality, straw-colored skin, and fine keeping qualities. Best for growing sets and the one most often used. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.25, 10 lbs. \$21.

SOUTHPORT YELLOW GLOBE. The largest and handsomest yellow Onion; exceedingly productive later main-crop sort, growing a uniform, rich golden colored, globe-shaped bulb. This variety is known to produce as high as 900 bushels per acre. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.50, 10 lbs. \$22.50.

YELLOW GLOBE DANVERS. Probably the most popular all-purpose Onion, and by all odds the one most grown for market. Somewhat flatter than the Southport Strain, with light, crisp, and mild flesh. It is very productive, medium early sort, fine keeper, and excellent for shipping. Pkt. 10c., oz. 30c., 1/4lb. 75c., lb. \$2.50, 10 lbs. \$22.50.

MAMMOTH YELLOW PRIZETAKER. Every small grower knows this Onion and its qualities; it is unsurpassed. Without doubt, a fine sort to grow, as it will crop better than most yellow varieties. By sowing early, in coldframes, and transplanting in the open ground, 4 to 5 inches apart, 4-inch Onions may be grown easily. Pkt. 10c., oz. 30c., 1/4lb. 80 cts., lb. \$2.75, 10 lbs. \$25.

WHITE SILVERSKIN. Flattened bulbs with clear white skin and mild flesh. Grown principally for sets and small pickling Onions; is the best white sort for this purpose. Pkt. 10 cts., oz. 35 cts., 1/4lb. 85 cts., lb. \$3, 10 lbs. \$27.50.



Thomas Laxton Peas

ONIONS, continued

SOUTHPORT WHITE GLOBE. Large, pure white Onion. Skin is silvery white; flesh pure white and of fine flavor. This requires about a week longer to mature than most white sorts. Fine variety to grow in the spring for green bunch Onions. Pkt. 10 cts., oz. 40 cts., 1/4lb. \$1, lb. \$3.25, 10 lbs. \$30.

MOUNTAIN DANVERS. A real globe-shaped, early Onion, maturing two weeks earlier than Yellow Globe Danvers, with flesh of about the same color. In several cases we have known this Onion to produce 850 bushels to an acre. This should impress one with the idea that it is not a small cropper. Pkt. 10 cts., oz. 30 cts., 1/4lb. 75 cts., lb. \$2.50, 10 lbs. \$22.50.

ONION SETS Write for prices
on large quantities

| | Pt. | Qt. | Pk. | Bus. |
|-----------------------|--------|--------|--------|--------|
| White Silverskin..... | \$0 20 | \$0 35 | \$1 50 | \$5 00 |
| Yellow Dutch..... | 15 | 25 | 1 25 | 4 00 |
| Yellow Danvers..... | 20 | 25 | 1 25 | 4 00 |

PARSNIP

HOLLOW-CROWN. Our strain of this standard table variety produces very smooth, medium-length roots, with very few fibers and pure white flesh. It is exceptionally fine. Pkt. 10 cts., oz. 20 cts., 1/4lb. 35 cts., lb. 90 cts., 10 lbs. \$8.50.

PARSLEY

HAMBURG or PARSNIP-ROOTED. Grown principally for the root which, in our stock, resembles a parsnip in shape and color, though somewhat smaller and very highly flavored. Foliage is almost the same as plain or single Parsley. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

MARKET GARDENERS'

A strong-growing variety, usually about 8 inches high, with beautiful, dark green, very finely cut leaves. The compact, curly leaves are excellent for garnishing and sometimes used for flavoring, but we do not recommend this variety for that purpose as highly as Hamburg or Parsnip-rooted. For all general purposes, Market Gardeners' is the best variety. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1.25, 10 lbs. \$10.

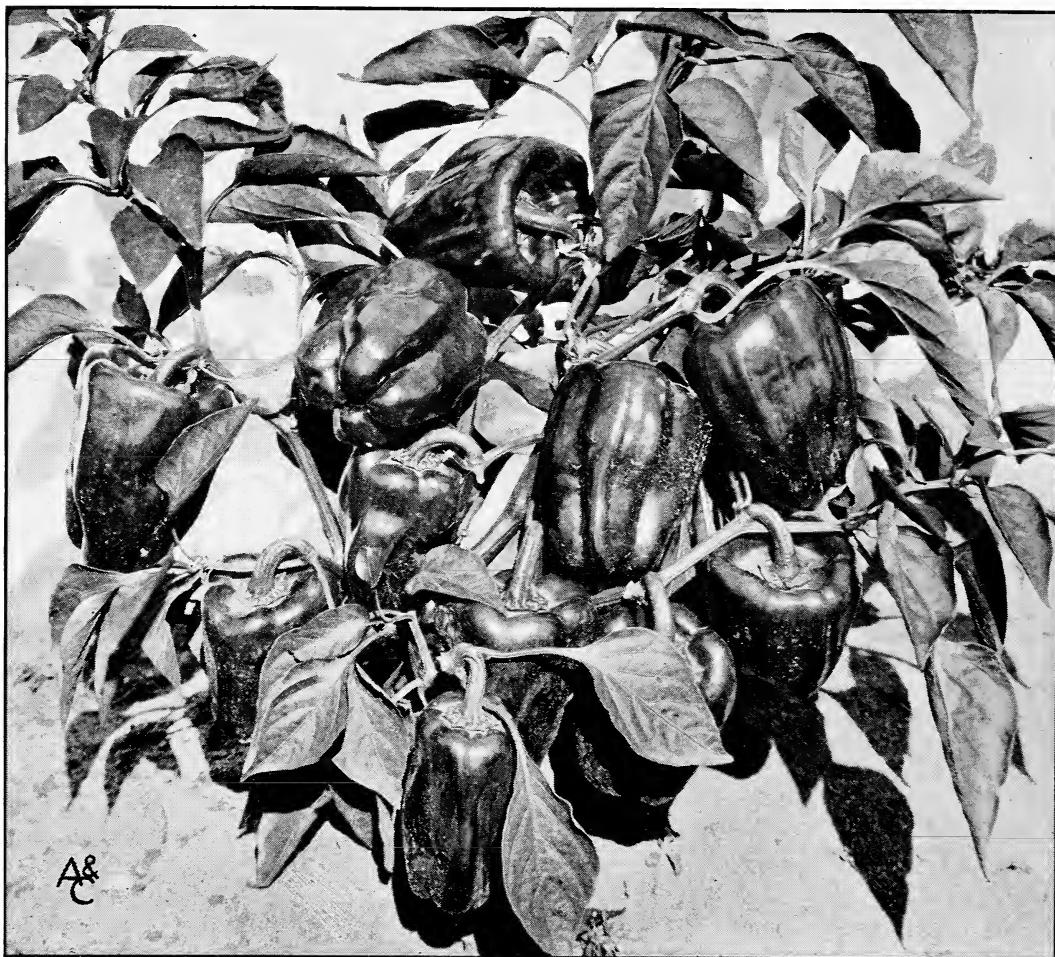
PEAS

RECORD EXTRA-EARLY. The earliest maturing vine—days ahead of all others. The 18 to 20-inch vines produce an abundance of short, but well-filled pods. Excellent for canning. Pkt. 10 cts., lb. 30 cts., 10 lbs. \$2.50, 50 lbs. \$10.

THOMAS LAXTON. Pods about 3 inches long. About one week later than our Record Extra-Early. Vines 3 feet tall, producing a heavy crop of pods, each filled with very sweet Peas. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 50 lbs. \$12.



Market Gardeners' Parsley



Ruby King Peppers. See page 21

PEAS, continued

GRADUS. Of the same season, and resembling Thomas Laxton in appearance, but the 24-inch vines are not quite as dark green. The most dependable producer under all conditions and for all purposes. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 50 lbs. \$12.

TELEPHONE. A second-early variety with vine about 2 feet long, producing an abundance of well-filled pods about 3 inches long. Fine for canning. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 50 lbs. \$12.

PILOT. A very fine sort. The seed can be sown outdoors just as early as the ground can be worked. It will stand as much cold weather as any round, smooth-seeded variety. Extra-large-podded sort, maturing about the same time as Thomas Laxton and Gradus. Valuable for commercial or home use. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 50 lbs. \$12.

GOLIATH. One of the newest varieties on the market, producing 5 to 7-inch pods (the largest known) well filled with large sweet Peas of excellent quality. Vines grow 5 to 7 feet long. Season about the same as Long Island Mammoth. It is a most desirable late crop Pea. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 50 lbs. \$12.

POTLATCH. A late, dwarf variety, with extra-heavy dark green vines that grow about 14 inches high, and 4-inch pods, well filled with fine, large Peas. A good variety to grow without brush. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 50 lbs. \$12.

PUMPKIN

KING OF MAMMOTHS. The largest of all. Grows to enormous size, often 2 feet in diameter, sometimes weighs 200 pounds; almost round in shape, with orange-colored skin and deep, bright yellow flesh. Very fine quality. It is the kind to grow to take prizes at the county fairs. Pkt. 10 cts., oz. 20 cts., 1/4 lb. 40 cts., lb. \$1.25.

WINTER LUXURY or PIE. Medium size, nearly round; smooth yellow skin; flesh very thick, light yellow, sweet and finely flavored. Skin golden yellow with gray netting. A fine pie variety and a good keeper. Pkt. 10 cts., oz. 20 cts., 1/4 lb. 40 cts., lb. \$1.25.

CUSHAW or CROOKNECK. A fine, solid, yellow crookneck, nearly all flesh. A good all-round Pumpkin. Pkt. 10 cts., oz. 20 cts., 1/4 lb. 40 cts., lb. \$1.25.



Field of Worldbeater Peppers

PEPPER

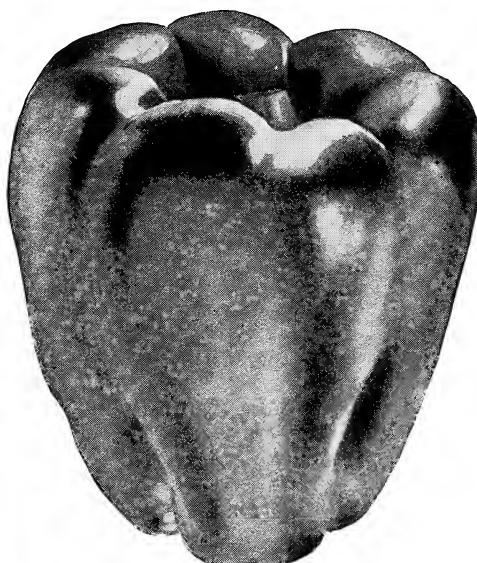
RUBY KING. Large, handsome fruits, 4 to 6 inches long, with broad shoulders and thick, mildly piquant-flavored flesh; when ripe a beautiful bright red. Largely used for pickling, and is especially good for making mangoes and salads. Market-gardeners have found it an extremely good selling Pepper. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4, 10 lbs. \$35.

WORLDBEATER

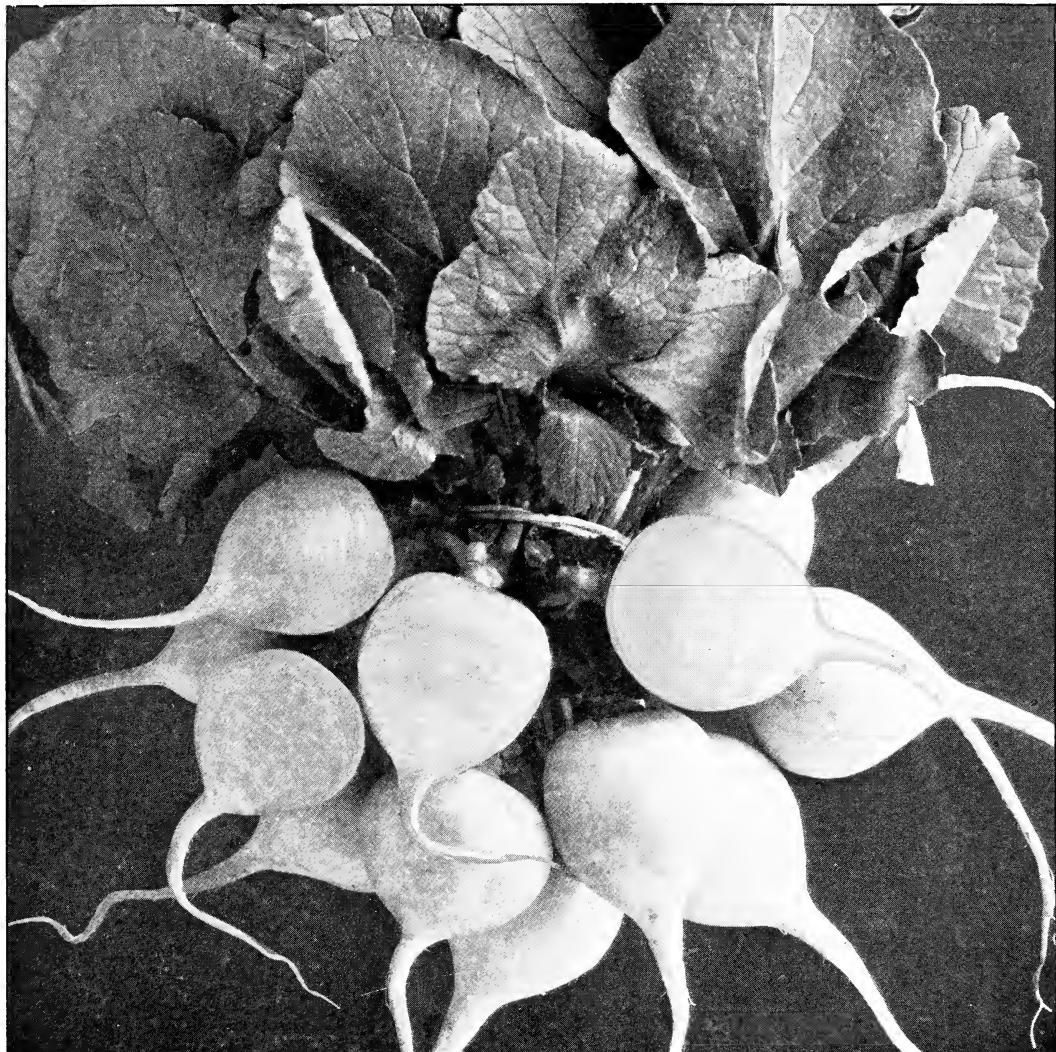
Without doubt this is the finest Pepper yet introduced. A cross between Chinese Giant and Ruby King, it is fully as early as Ruby King and similar in shape, but broader at the blossom end, and in size almost as big as Chinese Giant, but more prolific, some plants producing as many as twenty-five marketable Peppers. Bears a delightful green fruit that turns a beautiful shade of scarlet, with thick, firm flesh. A good shipper. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.25, 10 lbs. \$40.

BELL or BULLNOSE. This is an old standard favorite market Pepper, valuable because it is very productive. Fruit large, with thick flesh. Usually considered a sweet Pepper but its flesh gets very hot in hot dry seasons. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4, 10 lbs. \$35.

LONG RED CAYENNE. Very prolific; pointed fruits 6 inches long, deep green when young. This variety is used principally for flavoring purposes because of its pungency. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3.



Bell Pepper



White Box Radishes

RADISH

Our stocks are all grown especially for us and have been most carefully selected.

WHITE BOX (Special)

Another of our special varieties. We grow our own stock of seed of this variety, so that we are sure that it is true to type; we have been selecting it for four years. It is a pure white, globe-shaped Radish, with a medium-size top; it will stand longer on the ground before running to seed than other strains of White Box. A fine variety for growing under glass. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

WHITE ICICLE. Best long early white sort for forcing or outside sowing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 75 cts., 10 lbs. \$7.

SCARLET GLOBE

Probably the most popular Radish grown for commercial or home use. It is the earliest of all, producing light red, round, crisp Radishes of mild flavor. Excellent for forcing. See cut, page 23. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

WHITE STRASBURG. The most popular long white sort for market-gardeners. The pure white roots, 5 inches long and quite thick, remain solid for a long time after maturing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 80 cts., 10 lbs. \$7.50.

EARLY LONG SCARLET. The best long red variety grown. Fine, long, very crisp scarlet roots and short tops. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 90 cts., 10 lbs. \$8.50.



Scarlet Globe Radishes

RADISH, WINTER VARIETIES

WHITE CHINESE or CELESTIAL. A very large, white sort, grown especially for bunching in the fall or storing in the winter. A profitable variety to grow. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

HALF-LONG BLACK SPANISH. (Our own growing.) Pure white, very hard, crisp flesh and black skin. This variety keeps fine during the winter months when stored in cellars or pits. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

ROUND BLACK SPANISH. Similar to the Half-Long, except in shape. Roots round and black. Very hardy, robust grower. Fine for late bunching. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 75 cts.

SALSIFY

MAMMOTH SANDWICH ISLAND. This is the best variety. Roots light in color, heavy and thick. Salsify requires deeply cultivated soil and should be sown early in the spring. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 70 cts., lb. \$2.50, 10 lbs. \$24.

SORREL

LARGE-LEAVED. A fine variety for market-gardeners. Very large, light green leaves. This sort can be cut several times during the summer. Can be wintered over and it will grow again in the spring. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$14.

SPINACH

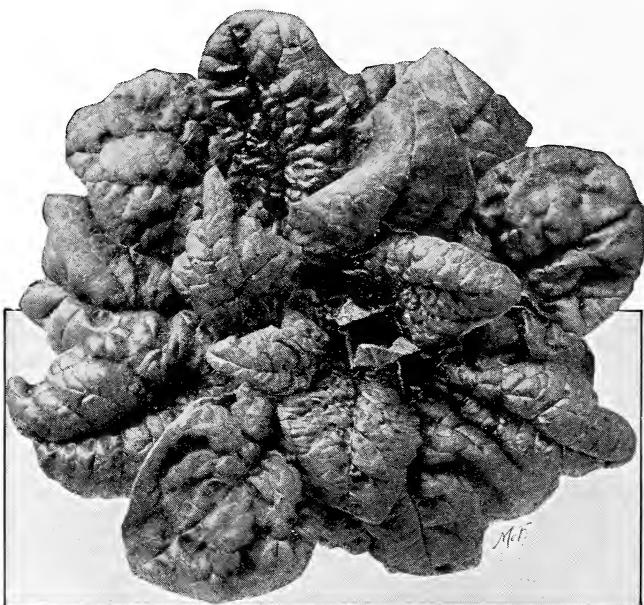
BLOOMSDALE SAVOY. The earliest Spinach of all. It has thick, large curled leaves. Our stock has been grown under our immediate direction and is exceptionally fine. A fine sort for fall sowing also. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3, 100 lbs. \$25.

KING OF DENMARK. A very quick grower, with dark, thick, heavy, half-crimped leaves that stand long before running to seed. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 50 cts., 10 lbs. \$3.75, 100 lbs. \$35.

LONG SEASON, Extra Selected. The finest of all summer varieties. It remains marketable a long time. Very heavy, dark green, curled leaves growing closer to the ground than Bloomsdale. Very productive. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3.75, 100 lbs. \$35.

GIANT THICK-LEAF. A quick-growing sort, with very large, round, and almost smooth leaves. Most popular for canning-house Spinach. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3, 100 lbs. \$25.

LONG-STANDING BLOOMSDALE. This is a new variety introduced two years ago and is upright in growth. It resembles Bloomsdale Savoy but will grow to a much larger size and will stay ten days longer on the ground before running to seed. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3.50, 100 lbs. \$30.



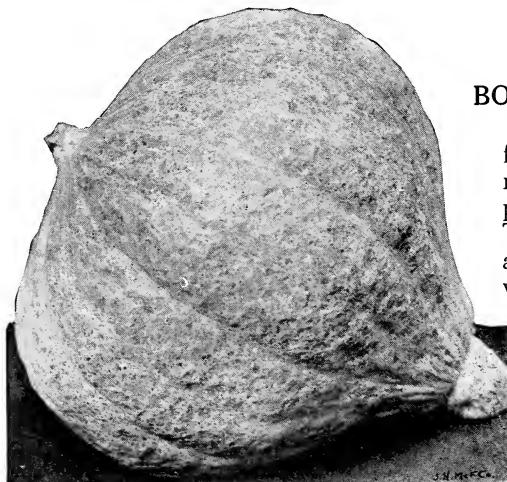
Bloomsdale Savoy Spinach

JULIANA. Another type of Spinach that is a favorite among the commercial growers. This is a type that grows rather close to the ground, very curly or crimped, and is one of the longest standing varieties. In many cases it will stand ten days longer than Long-standing Bloomsdale. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3.50, 100 lbs. \$30.

SQUASH

MAMMOTH WHITE BUSH SCALLOPED. One of the earliest, most popular Squashes, of dwarf habit, upright growth, and fine flavor. Color creamy white when matured. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

BOSTON MARROW. A very fine fall and winter Squash with a thin, bright orange skin and yellow flesh; it keeps well and has no superior for pies or canning. The plants are very productive. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.



Boston Marrow Squash

TOMATO

BONNY BEST FORCING

The seed of Bonny Best is grown and selected for us. No one else has been allowed to do the rogueing and selecting, as we are determined to put out a strain of seed that is in a class by itself. The plants were grown on ground that is adapted for Tomato-growing, and from the time when they were planted until they were harvested, they showed no signs of blight. This point is essential when growing for greenhouse purposes. For five years our stock has been grown by some of the largest greenhouse men in the country, and we have seen and heard excellent reports of our efforts. Pkt. 25 cts., oz. \$3, $\frac{1}{4}$ lb. \$10, lb. \$35.



Livingstons'
Globe
Tomatoes

BONNY BEST. A

fine outdoor, sec-
ond-early Tomato and a re-
markably productive sort.

Fruits large, smooth, and round, of uniform
shape and free from cracks. Used by a great
many canners. Pkt. 10cts., oz. 40cts., $\frac{1}{4}$ lb. \$1.10, lb. \$4.

LIVINGSTON'S GLOBE

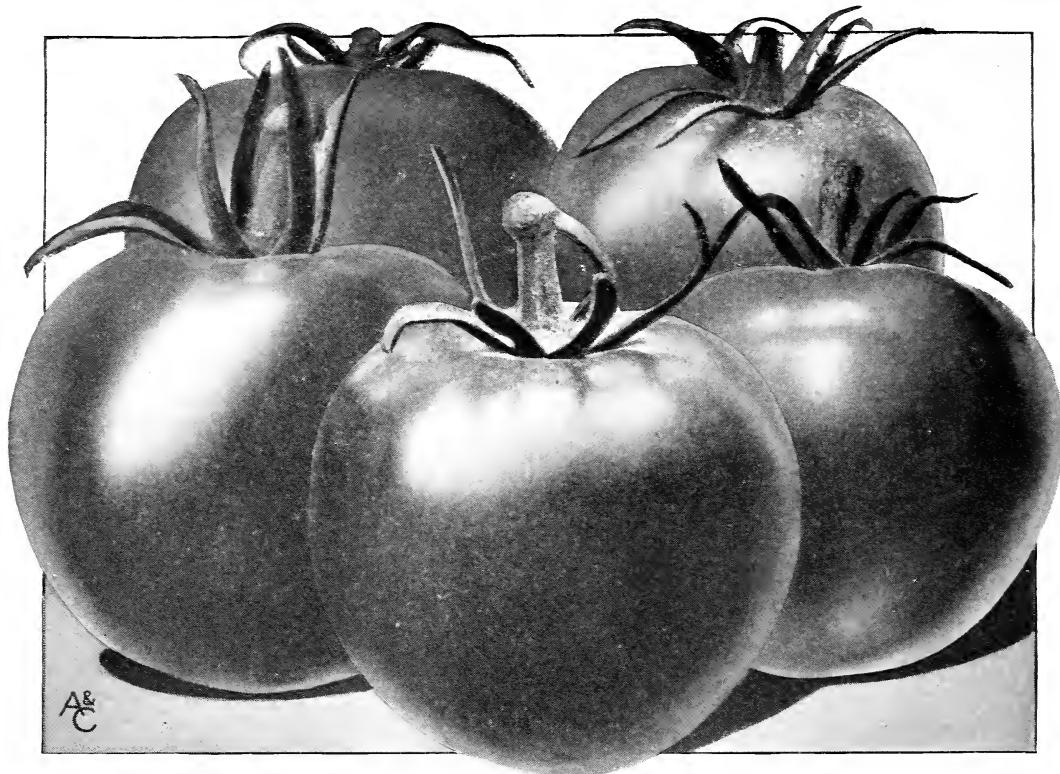
The best main-crop, purple-fruited To-
mato, maturing about the same time as
the Stone. The fruit is very large, ex-
ceedingly solid, of mild, pleasant, delicious
flavor, having but a few seeds, is smooth,
ripens close at the stem, and is of a hand-
some color. The vigorous, blight-resisting
plants are very heavy yielders, better than
most purple-fruited sorts. It is the best
long-distance shipper, with very thick and
firm flesh. Extra choice seed grown for
us under our supervision in New Jersey.
Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

A. & C. Celery Seed is used in
every Celery-growing section of
America. It's so good that big
growers must have it.

STONE. The best-known Tomato for main crop.
Large, smooth, solid fruits of deep scarlet color;
they are so firm they ship or haul long distances,
arriving in perfect condition. Seed-cells few
and small. Our strain of this variety has been
carefully selected to produce heavy crops of uni-
form fruits. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10,
lb. \$4.

MATCHLESS. An improvement on the Stone
Tomato. It is a vigorous grower, producing abun-
dant crops of late, handsome bright red fruits
with solid flesh of the finest quality. Pkt. 10 cts.,
oz. 40 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$4.

GREATER BALTIMORE. A desirable general or
late-crop variety. Large, uniform, perfectly
smooth, extremely firm, bright red fruits, with
thick meat that ripens evenly without cracks
or ridges, borne in large clusters by strong, vigor-
ous vines. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10,
lb. \$4.



MARGLOBE TOMATO

In this we are offering a strain of Tomato that has proven to be very valuable for commercial growers. Our stock seed came originally from Dr. Fred J. Pritchard, of the Bureau of Plant Industry, U. S. Department of Agriculture. We have since been growing our own stock seed under the best conditions, using the utmost care possible to insure the correct type. It is a beautiful scarlet color, positively globe-shaped, and will produce an exceptionally heavy yield. The vines are robust in their growth and are sure to stand a lot of bad weather conditions. It is also fine for forcing. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6, 10 lbs. \$55.

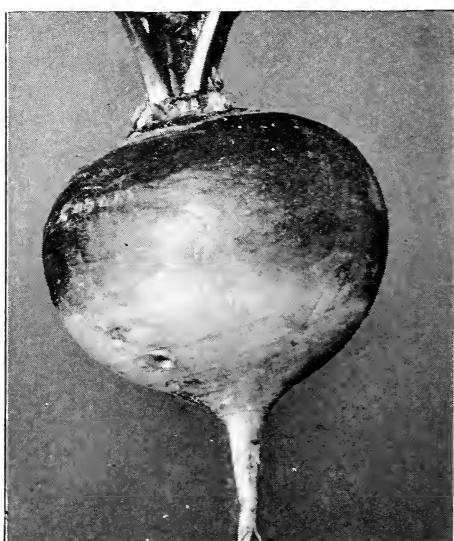
TURNIP

PURPLE-TOP WHITE GLOBE. The best sort for early sowing or winter use. The roots are a perfect globe-shape, the upper half being light purple and the lower half pure white. Fine quality; an excellent keeper. Good for table use or feeding stock. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 80 cts., 10 lbs. \$7.50.

PURPLE-TOP YELLOW GLOBE. Grows same shape and size as Purple-Top White Globe Turnip, but the skin is yellow, with a purple crown. Flesh deep yellow and of excellent quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 10 lbs. \$9.

YELLOW GLOBE (Rutabaga)

Carefully grown and selected especially for us by a Bucks County grower, it is, without doubt, the finest Rutabaga that can be obtained. It has taken the first prize at several county fairs. A globe-shaped, yellow-skinned root, with purple crown and deep yellow flesh of excellent quality. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6, 10 lbs. \$55.



Purple-Top White Globe Turnip

HERBS

THYME, BROAD-LEAF ENGLISH. Best variety known. Plant grows upright, making it easier to cut. Hardy. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

SUMMER SAVORY. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

SWEET MARJORAM. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3.

DILL. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 80 cts.

FENNEL, FLORENCE. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.50.



Soja Beans

FIELD SEEDS

CANADA PEAS. One of the best-known varieties for plowing under for green manure. Also excellent when cut green and cured like clover for feeding through the winter. We have secured quite a quantity of these Peas and will be glad to quote prices on large quantities. Prices subject to change. Bus. \$4.75.

SOJA BEANS. Bus. \$3.75.

VETCH, HAIRY or SAND. Lb. 25 cts., 100 lbs. \$14.

RAPE, DWARF ESSEX. Lb. 15 cts., 100 lbs. \$10.

WHEAT, HARVEST KING. Lb. 10 cts., bus. (60 lbs.) \$2.50.

TIMOTHY. Lb. 20 cts., bus. (45 lbs.) \$4.

MILLET, GOLDEN or GERMAN. Lb. 15 cts., bus. (50 lbs.) \$2.75.

RYE, WINTER. Lb. 10 cts., bus. (56 lbs.) \$1.75, 100 lbs. \$3.

CLOVER, Medium Red. Lb. 50 cts., bus. (60 lbs.) \$25.

Mammoth Red. Lb. 50 cts., bus. (60 lbs.) \$25.

Alsike. Lb. 40 cts., bus. (60 lbs.) \$22.50.

Alfalfa. Lb. 60 cts., bus. (60 lbs.) \$19.

White Dutch. Lb. 80 cts., bus. (60 lbs.) \$35.

Crimson. Lb. 25 cts., bus. (60 lbs.) \$9.50.

As the market on all Field and Grass Seeds fluctuates, the above prices are subject to change without notice

TREATMENT OF SEEDS BEFORE PLANTING

For Legumes

All seeds of the pea family, peas, beans, sweet peas, clover, vetch, alfalfa, etc., should be inoculated with **MULFORD CULTURES** in order to develop the nitrogen-fixing bacteria upon which the prosperity of these plants depends. The proper Culture for each kind of seed should be obtained and used according to directions.

CLOVER SEEDS

| | | | |
|------------------------|--------|-------------------------|--------|
| $\frac{1}{2}$ bus..... | \$0 60 | $2\frac{1}{2}$ bus..... | \$2 25 |
| 1 bus..... | 1 00 | 10 bus..... | 8 00 |

PEAS AND BEANS

| | | | |
|------------|--------|-------------|--------|
| 1 bus..... | \$0 60 | 5 bus..... | \$2 25 |
| 2 bus..... | 1 00 | 20 bus..... | 8 00 |

For Other Seeds

To destroy fungous growth or spores of bacterial blights, rots, or rusts, all seeds should be dusted with **SEMESAN** or soaked in a solution of it before planting. This wonderful new product prevents damping off and many of the ills which young seedlings are heir to, besides stimulating them to vigorous growth. It is extremely concentrated and therefore economical to use.

PRICES FOR SEMESAN

| | | | | | |
|-----------------------|--------|------------|--------|-------------|---------|
| 2 ozs..... | \$0 50 | 1 lb..... | \$2 75 | 25 lbs..... | \$62 50 |
| $\frac{1}{2}$ lb..... | 1 60 | 5 lbs..... | 13 00 | 50 lbs..... | 122 50 |

Do not use Semesan and the Mulford Cultures on the same seeds. Apply the Mulford Culture to the ground directly before planting seeds treated with Semesan.



A&C

LAWN GRASSES

A beautiful lawn is the pride of every home-owner but only by careful preparation of the soil can one be made. Spade or plow it deeply, turning in an abundance of well-decayed manure; if that is not available, use a good brand of Sheep Manure instead, at the rate of 25 pounds to 1,000 square feet, or 1,000 pounds to the acre. Practically all lawn seed mixtures use Kentucky Blue Grass as a basis, and this thrives only in a sweet soil; test the soil to learn its condition. Get a sample of soil an inch or two below the surface, sufficient to fill a glass tumbler. Procure from the druggist blue and red litmus paper. Be careful in handling it; the perspiration of the hands may react on it before it is used. Fasten by a paper clip each piece of litmus paper inside the glass, opposite one another, then fill the glass with the soil, pressing it firmly against the litmus paper. If in an hour's time neither the blue or pink paper has changed color, the soil is neutral, or if the red paper turns blue it is sweet, so treatment is unnecessary; but should the blue litmus paper turn pink then the soil is sour and needs lime to correct the condition. One-half ton to the acre, or 25 pounds to 1,000 square feet will be sufficient.

Rake or harrow the lime in and let the ground stand a week or so until the lime has had a chance to react. After a week use 1,000 pounds of good commercial fertilizer or bone-meal to the acre, harrowing it in. Too much harrowing is impossible, for the better the seed-bed, the better the lawn.

Sow grass seed at the proper time. If in the spring, do the work early so that the young grass plants will become established before the weather gets warm. September-sown seed will become established before cold weather.

We have gone to much expense in compounding our grass seed mixtures, and we know that if our instructions are followed in the preparation of the ground, the seed sown evenly and only lightly covered, that a beautiful velvety lawn will be obtained. Remember that the ground is full of weed seeds, and that when A. & C. grass seed mixtures are used, if weeds are seen growing they came from seeds in the ground, they were not in our lawn mixtures.

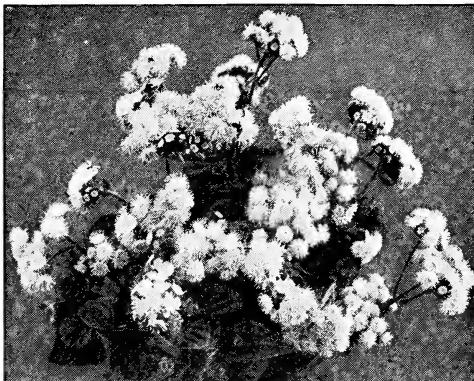
A. & C. SPECIAL MIXTURE. For the very best results use A. & C. Special Mixture. The extra money paid will more than repay in results. Price, qt. 50c., $\frac{1}{2}$ pk. (2½ lbs.) \$1.75, pk. (5 lbs.) \$3.25, bus. (20 lbs.) \$12.

A. & C. FANCY is a good grade of grass seed but does not have as many of the fancy sorts which go to make the highest type of lawn. You will not, however, be disappointed in its results. Qt. 35 cts., $\frac{1}{2}$ pk. (2½ lbs.) \$1, pk. (5 lbs.) \$1.75, bus. (20 lbs.) \$6.50.

SHADY SPOT is a special mixture for shaded places. After having sown one of the above mixtures, sow Shady Spot under trees or other shaded places; this will insure a gradual change from one to the other. Qt. 50 cts., $\frac{1}{2}$ pk. (2½ lbs.) \$1.75, pk. (5 lbs.) \$3.25, bus. (20 lbs.) \$12.



FLOWER SEEDS



Ageratum

AGERATUM

Attractive blue flowers profusely borne all summer by a compact, low-growing plant that thrives in any soil. One of the most desirable bedding plants. Annual; sow seeds in greenhouse, hotbed or in border where plants are to grow. In a bed, set the plants 1 foot apart. Fall-sown seed gives good winter-blooming plants indoors. 1 to $1\frac{1}{2}$ ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

ACROCLINIUM (Everlasting)

Popular both as summer cut-flowers or dried for winter bouquets. Annuals, with pink and white flowers. To preserve them for winter bouquets, pick them just before the flowers have opened, hang in a dry, airy room until dry. The colors remain bright all winter. 2 to $2\frac{1}{2}$ ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.

ALYSSUM

LITTLE GEM. A free-blooming, beautiful, honey-scented, white-flowered dwarf annual, for edging beds or rock-gardens. Blooms in six weeks from seed. Keep the old faded flowers removed to perpetuate flowering. $\frac{1}{2}$ ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 50 cts.

ANTIRRHINUM • Snapdragon

An exquisitely beautiful garden plant. Although a perennial, it blooms the first year if the seed is sown early, under glass. January or February-sown seed will bloom in July and continue to produce till frost. The flowers vary from snow-white to delicate pink, yellow, and deep crimson. $1\frac{1}{2}$ to 2 ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts.



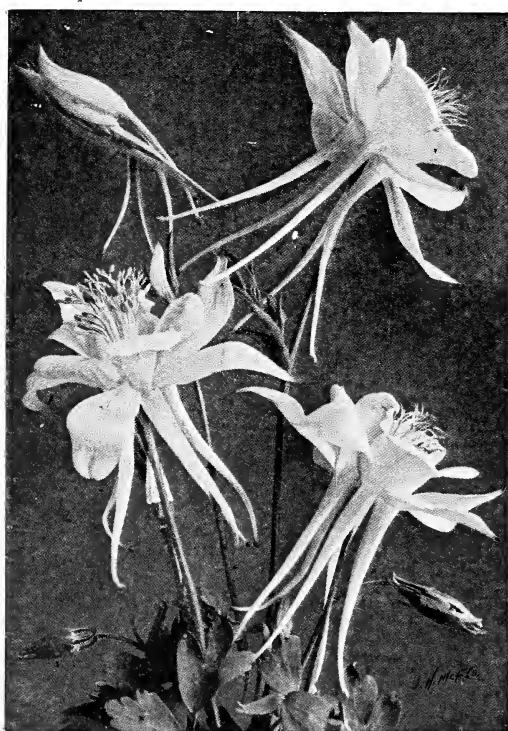
Alyssum, Little Gem



Queen of the Market Asters

AQUILEGIA • Columbine

ABBOTT & COBB'S LONG-SPURRED HYBRIDS. Beautiful bright-colored blooms in white, yellow, pink, scarlet, and blue, with long spurs. They prefer moist, well-drained soil in full sun or partial shade. Perennial; sow seeds in July for bloom the following May and June. 2 ft. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1.



A. & C.'s Long-spurred Hybrid Aquilegia

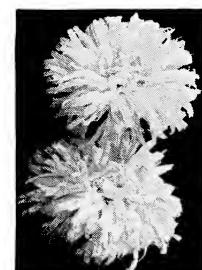
ASTER

QUEEN OF THE MARKET. A very early class with medium-sized blooms that appear three to four weeks before the larger-flowered kinds. Branching plants, with long-stemmed blooms, much used by florists for cut-flowers. 1½ ft. **Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$1.25.**

GIANT COMET. Long, stiff stems, bearing very double, showy flowers with long, wavy, twisted petals, like Japanese chrysanthemums. Wonderful for vases and table decorations, producing exceedingly beautiful effects. 2 ft. **Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$1.25.**

BALSAM • Impatiens

The finest strains of this delightful old plant. Large, double flowers, varying from white to dark blood-red, yellowish and spotted forms. Early May-sown seed will produce plants that bloom from July to frost. Set plants 2 feet apart to get good specimens. 2 to 2½ ft. **Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.**



Giant Comet Asters

BALSAM APPLE • Momordica

Tender vines, bearing curious, warty, golden yellow, ovoid fruits, 2 to 3 inches long, which, when ripe, open, showing the seeds and their brilliant carmine interiors. Excellent for training on trellises, over rockwork, or stumps. 10 ft. **Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.**

CALENDULA • Pot Marigold

A very showy, free-flowering annual that thrives in good garden loam, producing large, lemon or orange shaded, disc-like, double flowers in profusion from June to November; also thrives in pots or benches under glass and much used by florists. 1½ ft. **Pkt. 10 cts., oz. 50 cts.**

CALLIOPSIS

Bright yellow and reddish brown, single, daisy-like flowers that thrive in almost any soil in a sunny situation. Sow the seeds where plants are to stand; thin to 8 inches apart each way. A continuous supply of bloom may be assured by keeping all faded flowers removed. A wonderfully attractive cut-flower. Pkt. 10 cts., oz. 60 cts.



Campanula

CAMPANULA · Canterbury Bells

One of the most attractive of the old-fashioned garden flowers. Large, strong plants, covered in June with large "cup-and-saucer" shaped blooms of blue, pink, or white. Well-grown plants are 2 or more feet high and 1½ feet broad. They can be lifted when in full bloom and potted for house decoration; good cut-flower. Pkt. 10 cts., ¼ oz. 50 cts.

CANDYTUFT · Iberis

One of the most indispensable of the garden annuals. Plants a foot or more high, covered with clusters of small pure white flowers that are good cut-flowers; desirable as rockery plant and as an edging for beds. Fall-sown, the plants bloom from May to July; spring-sown, they flower from July to September. Prefer good soil and a light, airy situation. For cut-flowers make successive sowings every fourteen days. Pkt. 10 cts., ¼ oz. 20 cts., oz. 75 cts.

CARNATION

MARGUERITE. The earliest blooming Carnation and popular for its rich colors and delicious fragrance. Colors white, through yellow, scarlet, to deep crimson. Plants from seed sown in the open bloom from July to frost, and, if given some protection, they will winter well. For early bloom, sow seeds early indoors. Pkt. 10 cts., ¼ oz. 50 cts.

CASTOR-OIL BEAN · Ricinus communis

Gives a tropical appearance when used as center of bed, or screen. When ground is warm, sow seed in rich soil; thin plants to about 1½ feet apart. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

CENTAUREA · Bachelor's Button

One of the commonest of the old-fashioned flowers beloved by everyone who grows it. Beautiful fringed blue or white flowers, single or double, 1 inch across, are borne from July till frost. An annual; the plants perpetuate themselves by self-sown seeds. 1 to 2 ft. Pkt. 10 cts., ¼ oz. 30 cts., oz. \$1.

CHRYSANTHEMUM

Free-flowering, hardy annuals, with double white, yellow, or red flowers from August till November. It is one of the most attractive of the late summer-flowering plants; easily grown; useful for cut-flowers as well as garden decoration. They will flower earlier if seeds are started indoors. Pkt. 10 cts., ¼ oz. 30 cts.

CELOSIA · Dwarf Coxcomb

One of the showiest of the annuals. Large heads of small flowers, brilliant golden yellow, crimson, or other shades of red, crowded into velvety fasciated masses that resemble a rooster's comb. Very attractive bedding plant. Sow seeds early indoors. Pkt. 10 cts., ¼ oz. 50 cts.

COREOPSIS

Showy, bright yellow flowers on long, graceful stems, ideally adapted for cutting as well as garden decoration. Blooms over a long season. Seeds sown early bloom the first season, but they will be finest the second year. Pkt. 10 cts., oz. 50 cts.

COSMOS

One of the most satisfactory annuals, flowering in late summer. Big daisy-like flowers, 3 to 4 inches across, in white or pink, are borne by strong-growing but very graceful plants 3 to 6 feet high. Sow indoors, or outdoors as soon as the ground is warm; thin to 3 feet apart. For bloom indoors after frost, grow a few plants in 9- or 10-inch pots, pinching them back at frequent intervals until August 1. Unsurpassed as a cut-flower. Pkt. 10 cts., ¼ oz. 40 cts.



Cosmos



Gaillardia

DELPHINIUM

Perennial Larkspurs are the finest blue flowers for the garden. Shades range from sky-blue to almost black; some varieties show yellow and pink. **Mixed colors**, pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

DIANTHUS . Pinks

The sweet fragrance of these delightful single or double white, pink, or crimson flowers is unforgettable. They are borne on 5-inch stems produced by a tuft-like plant with short, narrow, gray-green leaves. Use them to border beds or walks. 1 ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

DIGITALIS . Foxglove

Tall spires of narrow, bell-like, white, pink, rose, or speckled flowers that add grace to any garden. A biennial; sow seeds in July for flowers next June; once established they reseed themselves. Naturalize them in shrubbery plantations or put them at the back of the border. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

ESCHSCHOLTZIA California Poppy

From June to frost a bed of these will be a constant mass of color—brilliant yellow, orange-crimson, rosy crimson, wallflower-red, and kindred shades. Sow the seeds early, in good soil in a sunny situation; sometimes it self-sows. An attractive edging for beds because of its blue-green foliage. 1 ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

FOUR O'CLOCK *Mirabilis jalapa*

Marvel of Peru is an old-time annual. Flowers open in late afternoon, remain open all night, and fade in the morning. Brilliant shades of red, pink, white, and yellow; bright foliage. Pkt. 10 cts., oz. 50 cts.

GAILLARDIA

ANNUAL. Brilliant red and yellow daisy-like flowers with brown centers 2 inches across. They thrive in a sunny situation in well-drained, light soil and bloom from July to frost. Sow the seed early where the plants are to grow. 1 to $1\frac{1}{2}$ ft. Pkt. 10 cts., oz. 75 cts.

PERENNIAL. One of the showiest and most effective of the hardy perennials. Seeds sown early, flower in July, continuing till frost. The flowers are large—3 to 4 inches across. Brownish centers with yellow or red and yellow rays. An excellent cut-flower. 2 ft. Pkt. 10 cts., oz. 75 cts.

GOURDS

Vigorous vines for shading porches and arbors. They grow quickly from seed and produce showy yellow flowers, followed by curious fruits of many shapes and colors. Pkt. 10 cts., oz. 30 cts.

GYPSOPHILA . Baby's Breath

A free-flowering annual that thrives in any situation, even dry places, and produces misty white panicles of bloom much used in mixing with other flowers when making bouquets. Desirable for growing on waste places and in rockeries. $1\frac{1}{2}$ ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.



Hollyhocks bordering the lawn. See page 33



Tom Thumb or Dwarf Nasturtiums

HOLLYHOCKS

No garden is complete without at least a few plants of these stately, time-honored flowers. Tall spikes, 6 to 7 feet, with 4-inch white, pink, or red flowers that open in July, continuing until August. Seed started in a hotbed in February will bloom the same season. Plant among shrubbery, in angles of the house, fence-corners, along fences, and border beds. Keep all diseased leaves removed and remove all old stalks and leaves at the end of the season, to prevent trouble from rust. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

LARKSPUR

Probably the best-known hardy annual. Large white, pink, scarlet, and blue flowers, $1\frac{1}{2}$ inches across, with spurs of equal length, on long stems; fine for cut-flowers. Prefer deep, rich, sandy loam in a sunny situation; deep digging is essential. For the earliest bloom, sow seeds in fall; they germinate slowly. 2 ft. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

MARIGOLD

A profusion of large, double, yellow or orange flowers are borne continuously till frost by robust plants 2 to $2\frac{1}{2}$ feet tall. A most desirable bedding plant; also good for filling in the perennial and mixed borders. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.

MIGNONETTE

Reseda odorata

Sweet Mignonette is a lovely plant with rather long spikes of flowers that are deliciously fragrant. Early sown seed will give plants that bloom all summer. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.

MYOSOTIS · Forget-me-not

Exquisite, small, delicate blue flowers, borne in profusion from May till frost. Thrive in shaded situations in moist soil. Sow seed up to midsummer where plants are to stand; give slight mulch. Later sown seed must be wintered in a coldframe. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

MORNING-GLORY

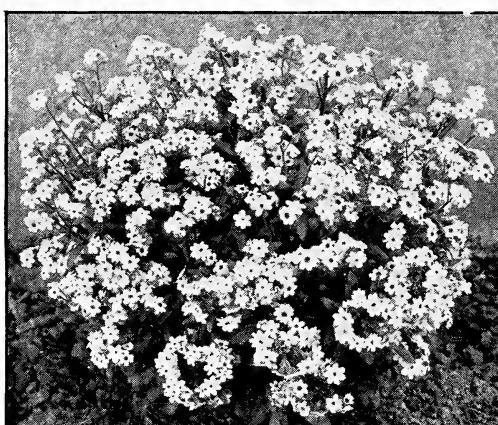
Probably the freest flowering plant and one of the most rapid-growing ones. It thrives in any situation and soil, producing a profusion of large blooms in white, pink, purple, and intermediate shades, from June till frost. Most desirable for covering fences, walls, trellises, and unsightly objects. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

NASTURTIUM

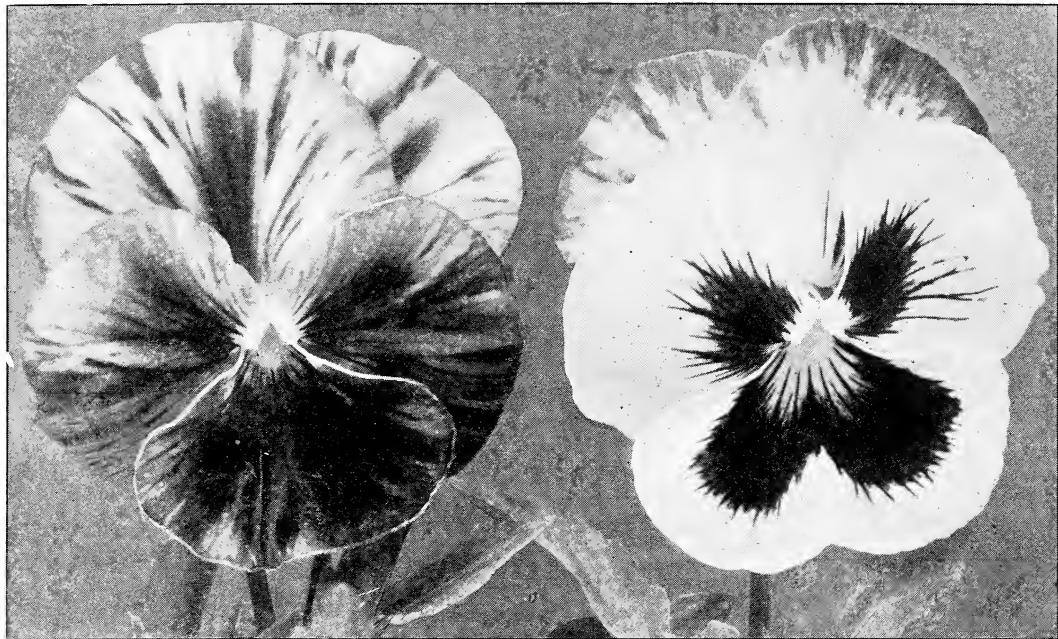
The most satisfactory annual. It thrives in any soil in a sunny situation, and even dry weather does not dim its glory. From July to frost the plants are covered with bloom. Our carefully made mixtures contain a well-balanced assortment of colors which range from white to deepest crimson-maroon.

TOM THUMB (DWARF) MIXTURE, pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

TALL or CLIMBING MIXTURE, pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.



Myosotis



Abbott & Cobb's Pansies

PANSY

Our strain is most carefully selected, and if the plants are given a cool, moist soil, protected from harsh winds and the mid-day sun, unusually large flowers will be produced. Their color is unsurpassed in brilliancy and markings. Sow seeds in mid-summer and protect plants over winter in a cold-frame. The blooms on plants from spring-sown seed will not be as large on account of summer heat. **Mixed colors, pkt. 25 cts., 1/4oz. \$1.50, oz. \$5.**

PETUNIA

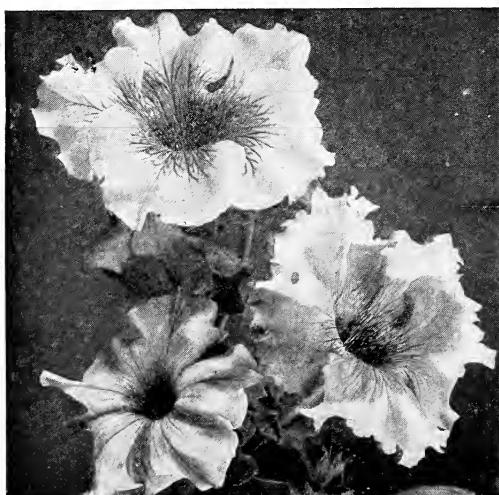
For window- and porch-boxes, as well as for bedding, few plants are as effective. Their large,

PETUNIA, continued

trumpet-shaped, ruffled flowers vary from white to dark purple-violet and are borne in abundance from June to frost, and in window-boxes will bloom all winter. Our strain is carefully selected. **Pkt. 10 cts., 1/4oz. 30 cts.**

PHLOX

Showy annuals of easy cultivation, useful for beds, mixed borders, and cut-flowers. Brilliant colored flowers—white, pink to crimson—in flat clusters. Easily raised; sow seed where the plants are to grow; prefers light, well-drained soil. **Mixed colors, pkt. 10 cts., 1/4oz. 30 cts.**



Single Petunias



Phlox



Border of Portulacas

PORTULACA

Beautiful little plants with red stems and cylindrical, pale green leaves that bear an abundance of richly colored flowers—yellow, orange, or scarlet. It frequently reseeds itself. Very valuable in rockeries, as edging to beds, or broadcast over sunny banks. It is the best covering for dry, sunny places, thriving on less water than most garden plants. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.

PRIMULA • Chinese Primrose

One of the most charming winter-flowering house plants; easily grown and free from insect pests. Our seed was grown for us by one of the most celebrated English Primrose specialists. The flowers are remarkable for their size, beauty, brilliancy of color, and substance of petals; colors, white, pink, red, $\frac{1}{2}$ to $\frac{3}{4}$ ft. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. \$1.



Primula

SALVIA • Scarlet Sage

One of the best late summer and fall-flowering plants. The tall, compact bushes, with dark green foliage, are literally ablaze with brilliant scarlet blooms until hard frosts kill them. Start the seed in the house or hotbed, transplanting to the open where danger of frost is over. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

SCABIOSA

Under the name of Mourning Bride this plant was known in old-time gardens. It has been vastly improved, and the flowers are excellent for cutting. Mixed colors, white, pink, maroon, yellow, scarlet, and crimson. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.

SCARLET RUNNER BEANS

A rapid growing climber, with intense scarlet flowers followed by long pods. Desirable for trellis, porch, or fence covering. Pkt. 10 cts., lb. 35 cts.

SWEET WILLIAM

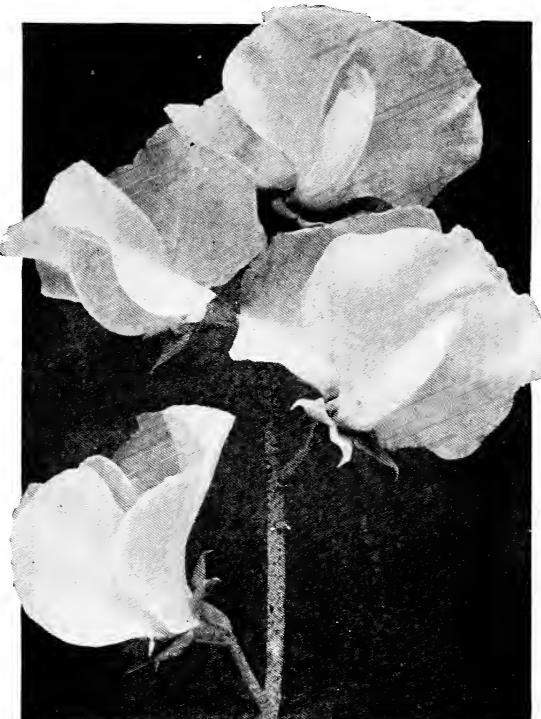
Free-flowering, showy perennial; a garden favorite for generations. Once established in good soil the plants last for years. Sow seeds in spring or early fall where plants are to grow. We have mixtures of both tall and dwarf forms. Price of either mixture, pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.



Salvia



Sweet William



Spencer Sweet Peas



Verbena

STOCKS

Delightfully fragrant garden flowers in long spikes of various colors, with the delicious scent of carnations. They bloom quickly from seed. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1.

SWEET PEAS

The flowers of Spencer Sweet Peas are often 2 inches across, their petals beautifully waved and crinkled, in delicate shades varying from white to pink and lavenders to deep purple; borne on long stems. They have a longer blooming season by a month than the ordinary early blooming sorts. Mixed colors, pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

VERBENA

An old and favorite brilliant-colored bedding plant. Sweetly scented white, pink, scarlet, blue, and purple flowers in large, flat clusters are borne profusely from June till frost. Sow seeds in the house or hotbed to get early flowering plants. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

WALLFLOWERS

Half-hardy perennials bearing large clusters of rich yellow, red, or orange-purple, deliciously fragrant flowers. Seed sown in March or April in a warm house will flower the following winter in a cool greenhouse, or they may be kept over in coldframes for spring bloom. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

ZINNIA

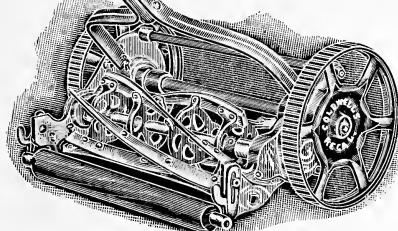
A very hardy annual blooming in late summer and fall until heavy frosts kill the plants. Large, golden yellow or scarlet blooms 2 to 4 inches across that retain their beauty for weeks, are borne in great profusion. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.



Mammoth Zinnia

LAWN MOWERS AND SUPPLIES

The Coldwell Lawn Mower

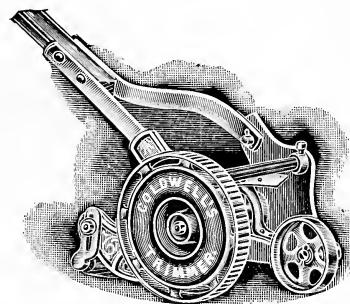


This Mower is particularly adapted for large lawns. It has large diameter drive wheels (10½ inches) which, together with the "rear drive" principle upon which it is built, makes it particularly adapted where long, tough grass is encountered. The revolving cutter is 6 inches in diameter and is furnished with four blades.

| | | | |
|------------|---------|------------|---------|
| 14-in..... | \$17 75 | 18-in..... | \$20 50 |
| 16-in..... | 19 00 | 20-in..... | 21 50 |

Coldwell Interstate Lawn Mower

| | | | |
|------------|---------|------------|---------|
| 14-in..... | \$12 00 | 18-in..... | \$14 00 |
| 16-in..... | 13 00 | | |



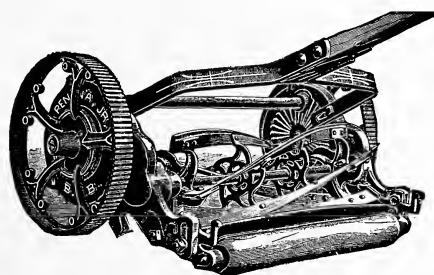
Coldwell's Lawn Trimmer

Made of best material throughout, ball bearings, single screw adjustment, bottom knife of finest tool steel; cuts a swath of 8 inches. Price, \$10.

The Jewel Mower

The best Mower for the price. It has large driving wheel, insuring light draft; four blades in the revolving cutter, giving a very fine cut. Its bottom knife is of hard-tempered crucible steel, double ratchet, and fine cut gears, preventing the noise usually found in low-priced Mowers. All bearings are provided with split brass bushings, by means of which all wear can be taken up.

| | | | |
|------------|--------|------------|--------|
| 12-in..... | \$7 75 | 16-in..... | \$8 75 |
| 14-in..... | 8 25 | | |



Pennsylvania Jr. Ball-Bearing Mower

To get the best results from this machine, which does exceptionally fine work, the lawn should be mowed at regular intervals. It cuts the grass shorter than the 4-bladed machine, hence requires mowing at stated periods when the grass is growing rapidly.

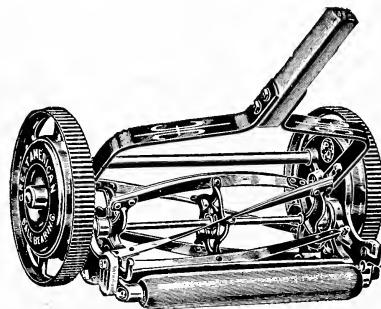
8-in. or low wheel, 5-blade cylinder, 5½-in. diameter

| | |
|------------|---------|
| 12-in..... | \$17 00 |
| 14-in..... | 20 00 |
| 16-in..... | 23 00 |
| 18-in..... | 26 00 |

10-in. or high wheel, 5-blade cylinder, 6-in. diameter

| | |
|------------|---------|
| 15-in..... | \$27 00 |
| 17-in..... | 30 50 |
| 19-in..... | 34 50 |
| 21-in..... | 38 50 |

We can also supply the Pennsylvania Standard in same sizes and prices as above.



Great American Ball-Bearing Lawn Mower

A high-class machine at a medium price. It is regarded as the best all-round Mower of its type. The perfectly fitting ball cups and cones insure an easy running machine.

10-in. wheels, 5-blade cylinder, 6-in. diameter

| | | | |
|-----------------|---------|-----------------|---------|
| 15-in. cut..... | \$19 50 | 19-in. cut..... | \$25 00 |
| 17-in. cut..... | 22 50 | 21-in. cut..... | 28 00 |

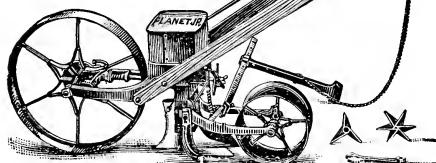
PLANET JR. TOOLS

Planet Jr. Tools save time, lighten labor, and get bigger, better crops at less cost. Designed by a practical farmer and manufacturer with over forty years' experience. Last a lifetime. Fully guaranteed.

No. 3 Planet Jr. Hill and Drill Seeder

Holds 3 quarts of seed. A favorite among onion-growers, market-gardeners, and seeds-men.

Price, \$17.50



Sows accurately in large or small quantities in drills in a narrow line, making wheel-hoe cultivation easy, or in hills, 4, 6, 8, 12, or 24 inches apart. Force feed.

The flow of seed is instantly started or stopped by the cut-off rod. No seed wasted at end of rows.

No. 17 Planet Jr. Single Wheel Hoe

Steel frame and wheel
Price, \$7.75

The highest type of Single Wheel Hoe made. Light, but strong, and can be used by man, woman, or boy. Will do

all the cultivation in your garden and in the best, easiest, quickest way.

No. 119 Garden Plow and Cultivator

Price, \$4.75



A new tool for those who prefer the extra-high wheel on their garden Cultivator. The wheel is 24 inches high, and has a 1½-inch rim; has a complete set of cultivating tools—plow, narrow and wide cultivator teeth, three-prong tooth, and scuffle hoe for weed cutting. Handles have plow-handle grips. A well-made, substantial tool at an attractive price.



Planet Jr. Edger No. 2

The Planet Jr. Grass Edger assists wonderfully in producing an attractive walk. \$1.60, mailing weight 4 lbs. Postage extra.

72-page *Planet Jr. Catalogue* free. Describes 70 tools, includes Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.

No. 12 Planet Jr. Double-Wheel Hoe Cultivator and Plow

Price, \$10.75



A Single and Double Wheel Hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world.

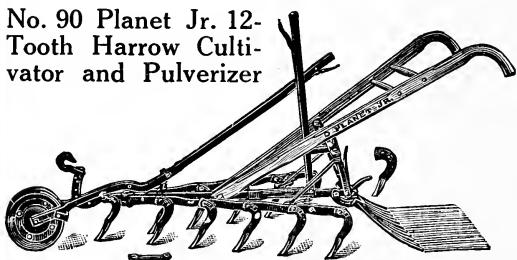
No. 101 Planet Jr. Cultivator

Price, with wheel, \$11
No. 101D, without wheel, \$9.25



A new and improved Cultivator sold at a low price. Stop in and see it. It will please you.

No. 90 Planet Jr. 12-Tooth Harrow Cultivator and Pulverizer



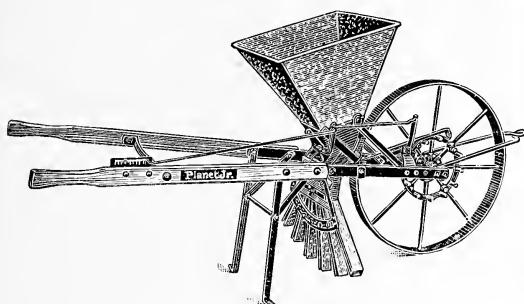
Complete with steel wheel, \$17
No. 90B (without pulverizer), \$13.75

This tool has become a special favorite with strawberry, tobacco, and sugar-beet growers, market-gardeners, truckers, and farmers, because of its 12 chisel-shaped teeth. The teeth and pulverizer leave the ground in fine condition. Depth can be regulated instantly. Cultivates any width from 12 to 32 inches. Handles adjust up, down, and sidewise, saving hands and clothes.

Planet Jr. Seed Attachment No. 35

For hotbed or greenhouse work. Can also be attached to the No. 119 Wheel Hoe or all Single and Double Wheel Hoes. Without Handle, \$6.50. With Handle \$7.

MISCELLANEOUS SUPPLIES



No. 220 Planet Jr. Fertilizer Distributor

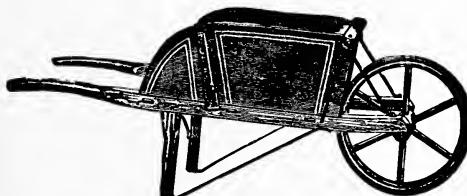
A thoroughly practical, well-built implement for distributing fertilizer evenly and thoroughly. It will handle 100 to 2,000 pounds per acre and can be adjusted to fertilize rows as close as 9 inches or as far apart as 4 feet. The economy in material and the saving in labor makes Planet Jr. No. 220 Fertilizer Distributor a profitable investment for every market-gardener or farmer. Price \$27.



Broadcast Seed Sower

For accurately sowing timothy, clovers, millets and heavy seeds of grass and other farm crops. Can be regulated to sow any required quantity per acre.

| | Each |
|--------------|--------|
| Cahoon..... | \$5 00 |
| Cyclone..... | 2 25 |



Farm and Garden Wheelbarrows

One of the most useful articles on the list of garden and lawn tools. Materials are selected oak mortised and bolted together, strengthened with six iron braces, made substantial, light and for long service. Wheels are 3-inch tread.

| No. | Tire in. | Length in. | Depth in. | Width in. | Price |
|-----|-------------|---------------|--------------|--------------|--------|
| 1 | 2 3/4 | 30 | 12 | 25 | \$9 25 |
| 2 | 2 3/4 | 28 | 12 | 24 | 8 00 |
| 3 | 2 3/4 | 26 | 12 | 22 | 7 75 |
| 4 | 1 3/4 | 22 | 9 | 18 | 5 50 |

The Auto Spray

A Self-Operating Automatic Sprayer

This machine is one of the strongest and most simple in its parts. The pump is locked by means of sliding cam, which prevents wear, gives long service, and renders all parts instantly accessible. Reservoir holds 4 gallons, but should not be over two-thirds full of solution when ready for spraying. About two pumpings will empty the tank, and the operator has only to direct the spray. It can be used in the garden for small trees and shrubs, spraying weeds, spraying cattle, or white-washing. Cylinders are made of both galvanized iron and brass, with locked seams. It can be carried in the hand or used as a knapsack sprayer.

| | |
|---|--------|
| No. 1A. Brass tank with Stop Cock | \$9 00 |
| No. 1B. Brass Tank with Auto Spray..... | 9 50 |
| No. 1C. Galvanized Tank with Stop Cock.... | 6 00 |
| No. 1D. Galvanized Tank with Auto Spray | 6 50 |

Postage extra. Mailing weight, 10 lbs.

Extension Pipes. 2-foot lengths for spraying tall shrubs and trees; solid brass..... 50

Brass Strainer. For straining lumpy liquid.... 1 20

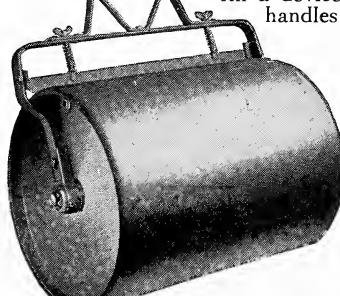
Brass Auto-Pop Nozzle. Shown in cut, part of No. 1B equipment. When sold separately. 1 50

Auto-Pop. With hose and fittings..... 2 00

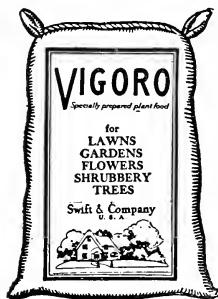


Keystone Water Ballast Rollers

Fill with water, which will weight it to any desired number of pounds, as shown below. Equipped with a device for keeping handles stationary.



| No. | Sec- tions | Diam. in. | Lgth. in. | Wt. empty | Wt. filled | Price |
|-----|---------------|--------------|--------------|--------------|---------------|---------|
| 601 | 1 | 14 | 24 | 60 | 250 | \$17 00 |
| 602 | 1 | 18 | 24 | 85 | 330 | 20 00 |
| 603 | 1 | 24 | 24 | 100 | 440 | 23 00 |
| 604 | 1 | 24 | 32 | 135 | 590 | 26 00 |



SUCCESS IS YOURS

WHEN YOU USE

VIGORO

Specially prepared plant food

There is no secret in having a velvety lawn, colorful flowers, crisp, succulent vegetables, luxuriant shrubbery and stately trees. You can enjoy these beauties of nature if you use good seeds, plants, bulbs and the right plant-food.

VIGORO, a plant-food specially and scientifically prepared by experts, adds BEAUTY and VIGOR to all plant-life.

Thousands of home-owners have come to rely on VIGORO as the ECONOMICAL, PRACTICAL, and EFFECTIVE way to secure finest results.

ECONOMICAL—because the cost is only 10 to 20 cents for every 100 square feet.

PRACTICAL—because it is clean, odorless, easy to apply—can be sown by hand like grass seed, or applied with an ordinary kitchen colander.

EFFECTIVE—because it contains all of the elements of plant-food required to produce early, vigorous growth and bring fruit, flowers, and foliage, to full development. COMPLETE DIRECTIONS IN EVERY BAG.

Endorsed by leading Landscape Gardeners and Nurserymen

| | | | |
|---------------------|--------|-----------------------|--------|
| 2-lb. pkg. | \$0.25 | 25-lb. bag | \$1.75 |
| 5-lb. pkg. | 59 | 50-lb. bag | 3.00 |
| 10-lb. pkg. | 85 | 100-lb. bag | 5.00 |

A SWIFT & COMPANY PRODUCT



FERTILIZERS

ASHES, HARDWOOD. Apply 1,000 lbs. per acre. Indispensable for all crops requiring potash; excellent for mixing with potting soil. For top dressing lawns and grass fields it is applied to best advantage either in very early spring or late fall. 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3, 200-lb. bbl. \$5, 1,000 lbs. \$22.50, ton \$40.

BONE-MEAL. Apply 800 to 1,000 pounds per acre. Made from pure raw bone, without any addition of materials. The ideal bone for rose-beds and greenhouse use. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 50 lbs. \$2, 100 lbs. \$3.75, 200 lbs. \$6.50, 1,000 lbs. \$30, ton \$55.

NITRATE OF SODA. Apply 100 to 150 pounds per acre, mixing with lime plaster or other fertilizers to render application more easy. Use only after plants are above ground. If used in liquid form, dilute 2 ounces to 1 gallon of water and do not apply oftener than twice a week. 5 lbs. 40 cts., 10 lbs. 75 cts., 25 lbs. \$1.35, 50 lbs. \$2.50, 100 lbs. \$4.50, 200 lbs. \$8.50, 1,000 lbs. \$37.50, ton \$72.50.

HUMUS (Alphano). An excellent article to incorporate with poor soil in the garden or greenhouse, especially desirable for mixing with potting soil. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 100 lbs. \$2.25, 500 lbs. \$10, 1,000 lbs. \$18, ton \$35.

LIME. For lawn or field use. Very finely pulverized. Hydrated, 10 lbs. 30 cts., 100 lbs. \$1.75.

PHOSPHATE, HIGH GRADE. For all vegetable crops, grains, grass, etc. Apply 800 to 1,000 pounds per acre broadcast. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3, 200 lbs. \$5.25, $\frac{1}{2}$ ton \$20, ton \$40.

SHEEP MANURE. Apply 1,000 pounds per acre. For garden, lawn or greenhouse use, nothing surpasses Sheep Manure; it is clean and easily handled, besides giving immediate results. Prices, f.o.b. Philadelphia. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3.25, 500 lbs. \$15, 1,000 lbs. \$26.50, ton \$50.

TOBACCO STEMS. For fumigating, mulching, and fertilizing. Bus. 60 cts., bbl. sack \$1.25; in large bales at 2 cts. per lb., $\frac{1}{2}$ ton \$15, ton \$27.50.

See Page 27 for Treatment of Seeds before Planting with Mulford Cultures and Semesan

INSECTICIDES AND FUNGICIDES

PRICES SUBJECT TO
CHANGE WITHOUT NOTICE

Only those Insecticides marked * can be mailed. Postage extra.

ARSENATE OF LEAD (Dry Powder Form). The more popular form, owing to its economical ways of being applied (can be used either as dusting powder or diluted in water). 1 to 2 lbs. per acre. Diluted in water, 1 lb. to 50 gals. $\frac{1}{2}$ lb. 25c., lb. 45 cts., 5 lbs. \$2, 10 lbs. \$3.50, 25 lbs. \$8.

BLACK LEAF 40. A concentrated nicotine spray for all sucking insects. Oz. 35 cts., $\frac{1}{2}$ lb. \$1.25, 2 lbs. \$3.50.

BORDEAUX MIXTURE (Powdered). Used same as Bordeaux Mixture Paste or Liquid. Also used for dry dusting. Dilutes 1 lb. to 8 gallons of water. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 5 lbs. \$1.80, 10 lbs. \$3.

COATED ARSENATE OF LEAD. For use against Japanese beetles on fruit or shade trees, only one spraying is necessary. Use 5 lbs. to 50 gals. water before beetles become established. Lb. 60 cts., $\frac{1}{2}$ lb. jar \$1, 10 lbs. \$3.

HELLOBORE, POWDERED WHITE. Less poisonous than Paris Green and safer to use where fruit is nearly ripe. $\frac{1}{2}$ lb. 30 cts., lb. 55 cts.

MELROSINE. The only remedy endorsed by leading authorities. The general contact insecticide that kills rose-bugs and other insects. Used with any good spray-pump, diluted with from 20 to 25 parts of water. Pleasant and harmless to use. Guaranteed effective when used according to directions on can. Gal. \$6, $\frac{1}{2}$ gal. \$3.25, qt. \$1.75, pt. \$1, trial size 50 cts. By mail or express at customer's expense. Or Trial Size, sufficient to make one gallon when diluted and care for several plants for the season, postpaid for 60 cts.

LIME-SULFUR SOLUTION. For all scale insects on trees and shrubs; also of benefit for such fungous bark diseases as can be treated in winter. Must be diluted and applied with a spray pump while the trees are dormant, after the leaves have fallen in fall and before the buds swell in spring. It can be used quite strong during mid-winter. One gallon to 10 gallons of water. Qt. 55 cts., $\frac{1}{2}$ gal. 90 cts., gal. \$1.25.

LIME-SULFUR (Dry Powdered). The most efficient form of this highly celebrated spraying compound. Dissolves instantly in cold or hot water. Use at rate of 10 pounds to 50 gallons of water. Lb. 35 cts., 5 lbs. \$1.40, 10 lbs. \$2.50, 25 lbs. \$4.50, 50 lbs. \$8, 100 lbs. \$14.

LEMON OIL. An efficient insecticide for all sucking insects and soft scales. It is applied as a spray or wash and has an agreeable odor. $\frac{1}{2}$ pt. 35 cts., pt. 60 cts.

NICOFUME PAPER. For fumigating greenhouses, conservatories, etc. Per box of 24 sheets, \$1.25, 144 sheets \$5.50, 288 sheets \$10.

NICOFUME TOBACCO POWDER (*Fumigator*). A 12½ per cent nicotine fumigator for greenhouse use; burns efficiently and dispenses dense fumes of nicotine; complete with directions in each can. Lb. tin \$1.25, 5 lbs. \$1.75, 10 lbs. \$3.50.

PYROX. A general spray for all eating insects and fungous troubles. One pound makes 5 gallons of spray material. Lb. 50 cts., 5 lbs. \$1.75, 10 lbs. \$3, 25 lbs. \$6.25.

PARIS GREEN. Applied as a powder it should be mixed with plaster or flour, 100 parts to 1 part of Paris Green; in solution, mix 1 pound to 100 gallons of water. $\frac{1}{2}$ lb. pkg. 30 cts., lb. pkg. 55 cts., 5 lbs. \$2.50, 14 lbs. \$5.

P. T. B. PARA-DICHLOROBENZINE. A successful remedy for peach tree borers. Directions with each package. Lb. can 65 cts., 5 lbs. \$2.50, 10-lb. can \$4.

SCALECIDE. A spray for scale. Dilute 1 gallon to 15 gallons of water. Qt. 75 cts., gal. \$1.75.

***SLUG SHOT.** One of the old and well-known remedies for destroying slugs, currant worms, cabbage worms and all of the soft-shelled insects which trouble vegetation. Lb. shaker box 20 cts. (mail weight, 2 lbs.), 5 lbs. 60 cts. (mail weight, 6 lbs.), 10 lbs. \$1.10.

***TOBACCO DUST, FINE.** For green and black aphids, flea-beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. 5 lbs. 30 cts., 10 lbs. 50 cts., 25-lb. bag \$1, 50-lb. bag \$1.80, 100-lb. bag \$3.50.

***TREE TANGLEFOOT.** An absolute safeguard against all creeping insects on trees. Apply with paddle, making a band around the tree 3 inches wide. Lb. can (mail weight, 2 lbs.) 50 cts., 5-lb. can (mail weight, 6 lbs.) \$2.40.

***FISH-OIL SOAP (WHALE-OIL SOAP).** An excellent wash for trees and plants where insects and eggs affect the bark. $\frac{1}{2}$ lb. (mail weight, 1 lb.) 15 cts., lb. (mail weight, 2 lbs.) 25 cts.

WEED KILLER. The method of killing weeds thoroughly by application of this liquid has become general. Used only on paths, drives, gutters, and places where no growth is wanted. One gallon makes 40 gallons of treating liquid. Qt. 50 cts., gal. \$1.75.

WHIZ (JAPANESE BEETLE SPRAY). Kills beetles by direct contact, does not merely repel them. A quart will make four gallons of spray. The diluted solution should be sprayed directly on the beetles. 1-qt. can \$1.25.

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